ПРАВИТЕЛЬСТВО РОССИЙСКОЙ ФЕДЕРАЦИИ
НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ
«ВЫСШАЯ ШКОЛА ЭКОНОМИКИ»

Факультет компьютерных наук
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ПРОГРАММА КЛАССИФИКАЦИИ КОМПЬЮТЕРНЫХ АТАК ПО НАБОРУ ДАННЫХ ISCX BOTNET

Текст программы

ЛИСТ УТВЕРЖДЕНИЯ

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Листов 401

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ОГЛАВЛЕНИЕ

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1.   СОСТАВ ПО И ОПИСАНИЕ СТРУКТУРЫ ДОКУМЕНТА

ПО состоит из двух частей: библиотеки классов LibBtntDtct и программы BotnetDetector. ПО использует .NET Framework 4.7 и написано на языке C# 7.0. Помимо этого ПО использует библиотеки SharpPcap версии 5.1.0, PacketDotNet версии 1.0.3, System.Runtime.CompilerServicies.Unsafe версии 4.6.0. Под каждую из частей ПО отведён соответствующий раздел с одноимённым названием, каждый раздел подразделяется на подразделы, соответствующие определённому файлу с исходным кодом, имена которых совпадают с именами файлов, которые онии описывают.

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2. LIBBTNTDTCT

2.1.   FlowClass.cs

```csharp
using System;
using System.Threading;
using System.Collections.Generic;
using System.Linq;

namespace LibBtntDtct
{
    /// <summary>
    /// Represents a flow class.
    /// </summary>
    public class FlowClass : IEquatable<FlowClass>
    {
        /// <summary>
        /// Max class ID of all FlowClasses initialised.
        /// </summary>
        protected static long maxClassID = 0;

        /// <summary>
        /// Represents this flow class name.
        /// </summary>
        public virtual string Name { get; protected set; }

        /// <summary>
        /// Represents this flow class id in the class list.
        /// </summary>
        protected readonly int id;

        /// <summary>
        /// Returns this flow class's id in the current class list.
        /// </summary>
        public virtual int Id => id;

        /// <summary>
        /// Represents this flow class's class list ID.
        /// </summary>
        public virtual long ClassListID { get; protected set; }

        /// <summary>
        /// Represents the class list this flow class belongs to.
        /// </summary>
        /// <value>The class list.</value>
        public virtual IReadOnlyList<FlowClass> ClassList { get; protected set; }
```

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```
/// <summary>
/// Determines whether the specified <see cref="LibBtntDtct.FlowClass"/> is equal to the
current <see cref="T:LibBtntDtct.FlowClass"/>.
/// It uses list class id's and flow class id for comparision.
/// </summary>
/// <param name="other">The <see cref="LibBtntDtct.FlowClass"/> to compare with the
current <see cref="T:LibBtntDtct.FlowClass"/>.</param>
/// <returns><c>true</c> if the specified <see cref="LibBtntDtct.FlowClass"/> is equal to
the current
/// <see cref="T:LibBtntDtct.FlowClass"/>; otherwise, <c>false</c>.</returns>
public bool Equals(FlowClass other) => id == other.id && ClassListID ==
other.ClassListID;

/// <summary>
/// Checks whether this flow is of the same class group with the other by id.
/// </summary>
public bool OfSameClassGroup(FlowClass other) => ClassListID == other.ClassListID;

/// <summary>
/// Checks whether this flow is of the same class group with the other by name
comparision.
/// </summary>
public bool DeepOfSameClassGroup(FlowClass other)
{
    HashSet<string> classNames;
    if (this.ClassList.Count == other.ClassList.Count)
    {
        classNames = new HashSet<string>(ClassList.Select(c => c.Name));
        for (int i = 0; i < other.ClassList.Count; i++)
            if (!classNames.Contains(other.ClassList[i].Name))
                return false;
    }
    else
        return false;
    return true;
}

/// <summary>
/// If two flow class groups (of this flow class and other) are equal by names and class
id's,
/// Tries to set other's class group same class group id's
/// So that they can be operated by id's.
/// </summary>
/// <returns><c>true</c>, on success, <c>false</c> otherwise.</returns>
public bool TryReduce(FlowClass other)
{
```

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```csharp
        bool result = true;
        result = other.ClassList.Count == ClassList.Count;
        if (other.ClassList.Count == ClassList.Count)
            return false;
        for (int i = 0; i < ClassList.Count; i++) {
            if (ClassList[i].Name != other.ClassList[i].Name)
            {
                return false;
            }
        }
        var list = other.ClassList;
        for (int i = 0; i < list.Count; i++)
            list[i].ClassListID = this.ClassListID;
        return true;
    }

    /// <summary>
    /// Determines whether the specified <see cref="object"/> is equal to the current <see
cref="T:LibBtntDtct.FlowClass"/>.
    /// </summary>
    /// <param name="obj">The <see cref="object"/> to compare with the current <see
cref="T:LibBtntDtct.FlowClass"/>.</param>
    /// <returns><c>true</c> if the specified <see cref="object"/> is equal to the current
    /// <see cref="T:LibBtntDtct.FlowClass"/>; otherwise, <c>false</c>.</returns>
    public override bool Equals(object obj)
    {
        return obj is FlowClass && this.Equals((FlowClass)obj);
    }

    /// <summary>
    /// Serves as a hash function for a <see cref="T:LibBtntDtct.FlowClass"/> object.
    /// </summary>
    /// <returns>A hash code for this instance that is suitable for use in hashing algorithms
and data structures such as a
    /// hash table.</returns>
    public override int GetHashCode() => id.GetHashCode() + ClassListID.GetHashCode();

    /// <summary>
    /// Initializes a new instance of the <see cref="T:LibBtntDtct.FlowClass"/> class.
    /// </summary>
    /// <param name="name">Name.</param>
    /// <param name="id">Identifier.</param>
    /// <param name="classListId">Class list identifier.</param>
    protected FlowClass(string name, int id, long classListId)
    {
        this.Name = name;
```

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```csharp
        this.id = id;
        this.ClassListID = classListId;
    }


    /// <summary>
    /// Create a new class list group using array of class names provided.
    /// </summary>
    public static FlowClass[] Create(params string[] arr)
    {
        long newClassListID = Interlocked.Read(ref maxClassID);
        Interlocked.Increment(ref maxClassID);
        FlowClass[] flowClasses = new FlowClass[arr.Length];
        for(int i = 0; i < arr.Length; i++)
        {
            flowClasses[i] = new FlowClass(arr[i], i, newClassListID);
            flowClasses[i].ClassList = flowClasses;
        }
        return flowClasses;
    }


}
}
```

2.2. Flow.cs

```
using System;
using System.Net;
using System.Globalization;
using System.ComponentModel;
using System.Text;

namespace LibBtntDtct
{
    public class Flow
    {
        static readonly IFormatProvider invCulture = CultureInfo.InvariantCulture;
        public const string timePattern = "dd.MM.yyyy HH:mm:ss.ffffff";

        public DateTime Start { get; set; }
        public DateTime End { get; set; }
        public IPAddress Source { get; set; }
        public ushort SPort { get; set; }
        public IPAddress Destination { get; set; }
        public ushort DPort { get; set; }
        public int ProtocolID { get; set; }
        public int PacketsCount { get; set; }
        public int OutgoingPackets { get; set; }
        public long OctetsCount { get; set; }
        public long PayloadOctetsCount { get; set; }

        public override string ToString()
        {
            const string separator = ", ";
            StringBuilder sb = new StringBuilder(21);
            sb.AppendFormat(Start.ToString(timePattern, invCulture));
            sb.Append(separator);
            sb.AppendFormat(End.ToString(timePattern, invCulture));
            sb.Append(separator);
            sb.Append(Source);
            sb.Append(separator);
            sb.Append(SPort.ToString(invCulture));
            sb.Append(separator);
            sb.Append(Destination);
            sb.Append(separator);
            sb.Append(DPort.ToString(invCulture));
            sb.Append(separator);
            sb.Append(ProtocolID.ToString(invCulture));
            sb.Append(separator);
            sb.Append(PacketsCount.ToString(invCulture));
            sb.Append(separator);
```

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```
            sb.Append(OutgoingPackets.ToString(invCulture));
            sb.Append(separator);
            sb.Append(OctetsCount.ToString(invCulture));
            sb.Append(separator);
            sb.Append(PayloadOctetsCount.ToString(invCulture));
            return sb.ToString();
        }


        protected static int Parse(string[] arr, int i, Flow at)
        {
            at.Start = DateTime.ParseExact(arr[0].Trim(), timePattern, invCulture);
            at.End = DateTime.ParseExact(arr[1].Trim(), timePattern, invCulture);
            at.Source = IPAddress.Parse(arr[2].Trim());
            at.SPort = ushort.Parse(arr[3], invCulture);
            at.Destination = IPAddress.Parse(arr[4].Trim());
            at.DPort = ushort.Parse(arr[5], invCulture);
            at.ProtocolID = int.Parse(arr[6], invCulture);
            at.PacketsCount = int.Parse(arr[7], invCulture);
            at.OutgoingPackets = int.Parse(arr[8], invCulture);
            at.OctetsCount = long.Parse(arr[9], invCulture);
            at.PayloadOctetsCount = long.Parse(arr[10], invCulture);
            return 11;
        }

        public static void Parse(string s, Flow at)
        {
            string[] arr = s.Split(',');
            Parse(arr, 0, at);
        }

        public static Flow Parse(string s)
        {
            Flow f = new Flow();
            Parse(s, f);
            return f;
        }
    }
}
```

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2.3.   FlowPacket.cs

```
using System;
using System.Net;
using System.Net.Sockets;
using PacketDotNet;
using ProtocolType = PacketDotNet.ProtocolType;

namespace LibBtntDtct
{
    /// <summary>
    /// Represents a flow packer.
    /// </summary>
    public class FlowPacket
    {
        /// <summary>
        /// Protocol ID to use for the ARP.
        /// </summary>
        public const int ARP = 470;


        /// <summary>
        /// Represents this packet's timestamp.
        /// </summary>
        public DateTime Timestamp { get; set; }
        /// <summary>
        /// Represents this packet's source.
        /// </summary>
        public IPAddress Source { get; set; }
        /// <summary>
        /// Represents this packet's source port.
        /// If a protocol does not specify ports, this should be set to 0.
        /// </summary>
        public ushort SPort { get; set; }
        /// <summary>
        /// Represents this packet's destination IP address.
        /// </summary>
        public IPAddress Destination { get; set; }
        /// <summary>
        /// Represents this packet's destination port.
        /// If a protocol does not specify ports, this should be set to 0.
        /// </summary>
        public ushort DPort { get; set; }
        /// <summary>
        /// Represents this packets protocol ID.
        /// </summary>
        public int ProtocolID { get; set; }
        /// <summary>
```

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```
/// Represents the total octets count of this packet.
/// </summary>
public int OctetsCount { get; set; }
/// <summary>
/// Indicates whether this packet has payload.
/// </summary>
/// <value><c>true</c> if has payload; otherwise, <c>false</c>.</value>
public bool HasPayload { get; set; }
/// <summary>
/// Represents the length of this packet's payload
/// </summary>
public int PayloadLength { get; set; }



/// <summary>
/// Tries to parse a payload of the parent packet given.
/// </summary>
private static void ParseEndpointPayload(Packet parent, FlowPacket at, bool
ignoreMinorErrors)
{
    bool hasPayload = false;
    try
    {
        hasPayload = parent.HasPayloadPacket;
    }
    catch (Exception inner)
    {
        if (!ignoreMinorErrors)
            throw new Exception("Error reading payload for packet", inner);
    }
    at.HasPayload = hasPayload;
    if (hasPayload)
    {
        try
        {
            at.PayloadLength = parent.PayloadPacket.BytesSegment.Length;
        }
        catch (Exception inner)
        {
            if (ignoreMinorErrors)
                at.PayloadLength = 16;
            else
                throw new Exception("Error reading payload length for ip's payload
packet", inner);
        }
    }
```

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```
        else
        {
            try
            {
                hasPayload = parent.HasPayloadData;
            }
            catch (Exception inner)
            {
                if (!ignoreMinorErrors)
                    throw new Exception("Error reading payload data for packet", inner);
            }
            at.HasPayload = hasPayload;
            if (hasPayload)
            {
                try
                {
                    at.PayloadLength = parent.PayloadDataSegment.Length;
                }
                catch (Exception inner)
                {
                    if (ignoreMinorErrors)
                        at.PayloadLength = 16;
                    else
                        throw new Exception("Error reading payload length for payload
packet", inner);
                }
            }
        }
    }

    /// <summary>
    /// Parses the IP packet.
    /// </summary>
    /// <param name="what">The packet to parse.</param>
    /// <param name="at">Where to save parsed data.</param>
    /// <param name="ignoreMinorErrors">If set to <c>true</c> ignores minor errors.</param>
    private static void ParseIPPacket(IPPacket what, FlowPacket at, bool ignoreMinorErrors)
    {
        try
        {
            at.Source = what.SourceAddress;
            at.Destination = what.DestinationAddress;
        }
        catch (Exception inner)
        {
            throw new Exception("Unable to parse ip addresses", inner);
```

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```
    }


bool hasPayload;
try
{
    hasPayload = what.HasPayloadPacket;
}
catch (Exception inner)
{
    throw new Exception("Error reading payload for IP packet.", inner);
}



if (hasPayload)
{
    Packet payload;
    try
    {
        payload = what.PayloadPacket;
    }
    catch (Exception inner)
    {
        throw new Exception("Error reading payload for IP packet.", inner);
    }
    if (payload is TcpPacket tcp)
    {
        try
        {
            at.SPort = tcp.SourcePort;
            at.DPort = tcp.DestinationPort;
        }
        catch (Exception inner)
        {
            if (!ignoreMinorErrors)
                throw new Exception("Error reading ports for TCP packet", inner);
        }
    }
    else if (payload is UdpPacket udp)
    {
        try
        {
            at.SPort = udp.SourcePort;
```

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```
                at.DPort = udp.DestinationPort;
            }
            catch (Exception inner)
            {
                if (!ignoreMinorErrors)
                    throw new Exception("Error reading ports for UDP packet", inner);
            }
        }
        ParseEndpointPayload(payload, at, ignoreMinorErrors);
    }
    else
    {
        try
        {
            hasPayload = what.HasPayloadData;
        }
        catch (Exception inner)
        {
            throw new Exception("Error reading payload data for ip packet", inner);
        }
        at.HasPayload = hasPayload;
        if (hasPayload)
        {
            try
            {
                at.PayloadLength = what.PayloadDataSegment.Length;
            }
            catch (Exception inner)
            {
                if (ignoreMinorErrors)
                    at.PayloadLength = 16;
                else
                    throw new Exception("Error reading payload length for ip's payload
packet", inner);
            }
        }
    }


    try
    {
        at.ProtocolID = (int)what.Protocol;
    }
    catch (Exception inner)
    {
```

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```
        if (ignoreMinorErrors)
        {
            bool isIPv4 = at.Source.AddressFamily == AddressFamily.InterNetwork ||
                        at.Destination.AddressFamily == AddressFamily.InterNetwork;
            at.ProtocolID = (int)(isIPv4 ? ProtocolType.IPv4 : ProtocolType.IPv6);
        }
        else
            throw new Exception("Error reading payload length for ip's payload packet",
inner);
        }
    }

    /// <summary>
    /// Parses an arp packet.
    /// </summary>
    /// <param name="what">The packet to parse.</param>
    /// <param name="at">Where to save parsed data.</param>
    /// <param name="ignoreMinorErrors">If set to <c>true</c> ignores minor errors.</param>
    private static void ParseArpPacket(ArpPacket what, FlowPacket at, bool ignoreMinorErrors)
    {
        try
        {
            at.Source = what.SenderProtocolAddress;
            at.Destination = what.TargetProtocolAddress;
        }
        catch (Exception inner)
        {
            throw new Exception("Unable to parse ip addresses", inner);
        }
        ParseEndpointPayload(what, at, true);
        at.ProtocolID = ARP;
    }

    /// <summary>
    /// Parses an ethernet packet.
    /// </summary>
    /// <param name="what">The packet to parse.</param>
    /// <param name="at">Where to save parsed data.</param>
    /// <param name="ignoreMinorErrors">If set to <c>true</c> ignores minor errors.</param>
    public static void ParseEthernetPacket(EthernetPacket what, out FlowPacket at, bool
ignoreMinorErrors = false)
    {
        at = null;
        if (what == null)
            return;
        FlowPacket current = new FlowPacket();
```

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```
            at = current;
            bool hasPayload;
            try
            {
                hasPayload = what.HasPayloadPacket;
            }
            catch (Exception inner)
            {
                throw new Exception("Error reading payload for ethernet packet", inner);
            }

            if (!hasPayload)
                throw new Exception("Unable to parse a bare ethernet packet (it has no payload
with ip data).");

            Action parsingSubmethod = null;
            try
            {
                if (what.PayloadPacket is IPPacket ipp)
                    parsingSubmethod = () => ParseIPPacket(ipp, current, ignoreMinorErrors);
                else
                {
                    if (what.PayloadPacket is ArpPacket arp)
                        parsingSubmethod = () => ParseArpPacket(arp, current, ignoreMinorErrors);
                }
                at.OctetsCount = what.PayloadPacket.TotalPacketLength;
            }
            catch
            {
                throw new Exception("Error determining payload type and length for the
ethernetPacket.");
            }
            if (parsingSubmethod == null)
                throw new Exception("Unable to determine ip from the payload of ethernet
packet.");

            parsingSubmethod();
        }

        /// <summary>
        /// Tries to parse an ethernet packet.
        /// </summary>
        /// <returns><c>true</c>, on success, <c>false</c> otherwise.</returns>
        /// <param name="what">The packet to parse.</param>
        /// <param name="at">Where to save parsed data..</param>
        /// <param name="ignoreMinorErrors">If set to <c>true</c> ignores minor errors.</param>
```

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```
public static bool TryParseEthernetPacket(EthernetPacket what, out FlowPacket at, bool
ignoreMinorErrors = false)
    {
        FlowPacket fp = null;
        try
        {
            ParseEthernetPacket(what, out fp, ignoreMinorErrors);
            at = fp;
            return true;
        }
        catch
        {
            at = fp;
            return false;
        }
    }
}
```

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2.4.   AbstractClassifier.cs

```
using System;
using System.Collections.Generic;
using System.Reflection;

namespace LibBtntDtct
{
    public abstract class AbstractClassifier
    {
        static Type[] noTypeConstructors = { };

        /// <summary>
        /// Gets the list of flow classes of this classifier.
        /// </summary>
        public abstract IReadOnlyList<FlowClass> FlowClasses { get; }

        /// <summary>
        /// Classify the specified flow.
        /// </summary>
        /// <returns>Flow class evaluated.</returns>
        public abstract FlowClass Classify(Flow f);

        /// <summary>
        /// Classify the specified flow and validate returned result.
        /// Throws exceptions on invalid class values.
        /// </summary>
        /// <returns>Flow class evaluated.</returns>
        public FlowClass ValidateClassify(Flow f)
        {
            bool sameClassGroup;
            bool emptyName;
            FlowClass cl;
            try
            {
                cl = Classify(f);
                sameClassGroup = cl.OfSameClassGroup(FlowClasses[0]);
                emptyName = string.IsNullOrEmpty(cl.Name);
            }
            catch(Exception inner)
            {
                throw new Exception("Classifier has returned invalid class value.", inner);
            }
            if (!sameClassGroup)
                throw new Exception("Classifier has returned a class value of other class
group.");
            if (emptyName)
```

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```
            throw new Exception("Classifier has returned a class value with empty or null
name.");
            return cl;
        }


        /// <summary>
        /// Indicates whether a type is a valid basic classifier.
        /// </summary>
        /// <returns><c>true</c>, if a type is a valid basic classifier, <c>false</c>
otherwise.</returns>
        public static bool ValidnessOf(Type t)
        {
            return t.IsClass && t.IsSubclassOf(typeof(AbstractClassifier)) &&
                    (t.GetConstructor(noTypeConstructors)?.IsPublic ?? false);
        }


    }
}
```

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2.5.   FlowReader.cs

```csharp
using System;
using System.IO;

namespace LibBtntDtct
{
    /// <summary>
    /// Flow table reader.
    /// </summary>
    public class FlowReader
    {
        protected StreamReader reader;

        /// <summary>
        /// Indicates whether end of stream (end of file) is reached.
        /// </summary>
        public bool EOF => reader.EndOfStream;

        /// <summary>
        /// Reads a flow from the next row of the stream.
        /// </summary>
        /// <returns>The flow.</returns>
        public Flow ReadFlow()
        {
            return Flow.Parse(reader.ReadLine());
        }

        /// <summary>
        /// Reads a flow from the next row of the stream.
        /// </summary>
        /// <param name="at">Where to save flow data.</param>
        public void ReadFlow(Flow at)
        {
            Flow.Parse(reader.ReadLine(), at);
        }

        /// <summary>
        /// Initializes a new instance of the <see cref="T:LibBtntDtct.FlowReader"/> class.
        /// </summary>
        /// <param name="s">Stream to initialize this reader on.</param>
        public FlowReader(Stream s)
        {
            reader = new StreamReader(s);
        }

        /// <summary>
```

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```
/// Initializes a new instance of the <see cref="T:LibBtntDtct.FlowReader"/> class.
/// </summary>
/// <param name="s">Stream to initialize this reader on.</param>
/// <param name="skipFirstLine">If set to <c>true</c> skips first line.</param>
public FlowReader(Stream s, bool skipFirstLine)
{
    reader = new StreamReader(s);
    if (skipFirstLine)
        reader.ReadLine();
}
}
}
```

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2.6. FlowAdapter.cs

```csharp
using System;
using System.Linq;
using System.Collections.Generic;
using PacketDotNet;

namespace LibBtntDtct
{
    /// <summary>
    /// Used to meter flows from packets.
    /// </summary>
    public class FlowAdapter
    {
        /// <summary>
        /// Occurs when flow is spawned.
        /// </summary>
        public event Action<Flow> FlowSpawned;
        /// <summary>
        /// Occurs when packet a packet is appeneded.
        /// </summary>
        public event Action<Flow, FlowPacket> PacketAppened;
        /// <summary>
        /// Occurs when the flow is removed from the listing.
        /// </summary>
        public event Action<Flow> FlowDead;

        /// <summary>
        /// Gets or sets the time window to use.
        /// Should the time windows be exceded, all the flows are removed.
        /// </summary>
        public TimeSpan TimeWindow { get; set; }

        /// <summary>
        /// Gets or sets the date of the last processed packet.
        /// </summary>
        public DateTime LastDate { get; set; }

        /// <summary>
        /// Gets or sets the flows currently listed.
        /// </summary>
        public List<Flow> Flows { get; set; }

        /// <summary>
        /// Searches for a flow which owns the packet given.
        /// Throws exception if more then one owner is found.
        /// </summary>
```

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```csharp
        /// <returns>The flow found. Null if the packet does not belong to any.</returns>
        public Flow SearchFlow(FlowPacket fp)
        {
            bool Filter(Flow f)
            {
                return
                ((f.Source.Equals(fp.Source) && f.Destination.Equals(fp.Destination) && //
outgoing direction
                            f.SPort == fp.SPort && f.DPort == fp.DPort) ||
                    (f.Source.Equals(fp.Destination) && f.Destination.Equals(fp.Source) && //
incoming direction
                            f.SPort == fp.DPort && f.DPort == fp.SPort)) &&
                                f.ProtocolID == fp.ProtocolID; // protocol
            }

            var found = Flows.Where(Filter).ToList();

            switch (found.Count)
            {
                case 0:
                    return null;
                case 1:
                    return found[0];
                default:
                    throw new Exception("Two non-equal flows found.");
            }

        }

        /// <summary>
        /// Removes all the flows from the list and calls corresponding events.
        /// </summary>
        public virtual void KillFlows()
        {
            if(FlowDead != null)
                Flows.ForEach(FlowDead.Invoke);
            Flows.Clear();
        }

        /// <summary>
        /// Creates a flow for a packet given.
        /// </summary>
        /// <param name="fp">Packet to create the flow from.</param>
        /// <param name="flow">Flow class to write flow data in.</param>
        public void ConvertToFlow(FlowPacket fp, Flow flow)
        {
```

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```
            flow.Start = fp.Timestamp;
            flow.End = fp.Timestamp;
            flow.Source = fp.Source;
            flow.SPort = fp.SPort;
            flow.Destination = fp.Destination;
            flow.DPort = fp.DPort;
            flow.ProtocolID = fp.ProtocolID;
            flow.OctetsCount = fp.OctetsCount;
            flow.PacketsCount = 1;
            flow.OutgoingPackets = 1;
            flow.PayloadOctetsCount = fp.PayloadLength;
        }


        /// <summary>
        /// Reads an ethernet packet packet.
        /// </summary>
        /// <param name="ethPacket">Ethernet packet.</param>
        /// <param name="packetTime">Packet timestamp.</param>
        /// <param name="ignoreMinorErrors">If set to <c>true</c> ignores minor parsing errors.</
param>
        public virtual void ReadPacket(EthernetPacket ethPacket, DateTime packetTime, bool
ignoreMinorErrors = true)
        {

            if (packetTime - LastDate > TimeWindow || packetTime < LastDate)
            {
                KillFlows();
                LastDate = packetTime;
            }


            if (FlowPacket.TryParseEthernetPacket(ethPacket, out FlowPacket fp,
ignoreMinorErrors))
            {
                fp.Timestamp = packetTime;

                if (fp.ProtocolID == FlowPacket.ARP)
                    return;

                Flow flow = SearchFlow(fp);
                if(flow == null)
                {
                    flow = new Flow();
                    ConvertToFlow(fp, flow);
                    Flows.Add(flow);
                    FlowSpawned?.Invoke(flow);
```

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```
            PacketAppened?.Invoke(flow, fp);
        }
        else
        {
            flow.End = fp.Timestamp;
            flow.OctetsCount += fp.OctetsCount;
            flow.PayloadOctetsCount += fp.PayloadLength;
            flow.PacketsCount++;
            if (flow.Source.Equals(fp.Source))
                flow.OutgoingPackets++;
            PacketAppened?.Invoke(flow, fp);
        }
    }
}


/// <summary>
/// Initializes a new instance of the <see cref="T:LibBtntDtct.FlowAdapter"/> class.
/// </summary>
public FlowAdapter()
{
    Flows = new List<Flow>();
    LastDate = DateTime.MaxValue;
    TimeWindow = new TimeSpan(0, 0, 60);
}
}
}
```

2.7. ClassifyingFlowAdapter.cs

```csharp
using System;
namespace LibBtntDtct
{
    /// <summary>
    /// Represents a flow adapter which classifies flows.
    /// </summary>
    public class ClassifyingFlowAdapter : FlowAdapter
    {
        /// <summary>
        /// Gets or sets the flow classifier to use.
        /// </summary>
        public AbstractClassifier FlowClassifier { get; protected set; }

        /// <summary>
        /// Occurs when flow was classified.
        /// </summary>
        public event Action<Flow, FlowClass> FlowClassified;

        public override void KillFlows()
        {
            if(FlowClassified != null)
                Flows.ForEach(f => FlowClassified(f, FlowClassifier.Classify(f)));
            base.KillFlows();
        }

        public ClassifyingFlowAdapter(AbstractClassifier classifier)
        {
            FlowClassifier = classifier;
        }

    }
}
```

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2.8.   LiveCaptureFlowAdapter.cs

```
using System;
using System.Threading;
using System.Threading.Tasks;
using System.Collections.Concurrent;
using PacketDotNet;
using PacketDotNet.Utils;
using SharpPcap.LibPcap;
using SharpPcap;

namespace LibBtntDtct
{

    /// <summary>
    /// Used to meter flows from packets of a live device.
    /// </summary>
    public class LiveCaptureFlowAdapter : FlowAdapter
    {
        /// <summary>
        /// Live device to capture packets from.
        /// </summary>
        ICaptureDevice liveDevice;

        /// <summary>
        /// The queu of captured packets to be processed.
        /// </summary>
        ConcurrentQueue<RawCapture> captures = new ConcurrentQueue<RawCapture>();

        bool readCaptures = true;

        Task captureReader;

        /// <summary>
        /// Represents the total number of packets read.
        /// </summary>
        public long Total { get; set; }

        /// <summary>
        /// Represnts the number of packets the library encountered errors parsing.
        /// </summary>
        public long Errors { get; set; }

        /// <summary>
        /// Represents the number of droped packets due to the queue overflow.
        /// </summary>
        public long Dropped { get; set; }
```

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```csharp
/// <summary>
/// Represents the number of queued packets.
/// </summary>
public int QueudPackets => captures.Count;


/// <summary>
/// Represent the max packets queue size;
/// </summary>
public int MaxQueueSize { get; set; } = 1000000;


/// <summary>
/// Reads and processes a raw capture.
/// </summary>
private void ReadCapture(RawCapture r)
{
    try
    {
        ReadPacket(new EthernetPacket(new ByteArraySegment(r.Data)), r.Timeval.Date);
    }
    catch(Exception ex)
    {
        Console.WriteLine(ex);
        Errors++;
    }
}


/// <summary>
/// Reads and processes captures from the queue. This is launched in a separate thread.
/// If no packets are found in the queue, sleeps for 64 miliseconds.
/// </summary>
private async Task ReadCaptures()
{
    const int stale = 64;
    while (readCaptures)
    {
        if (!captures.IsEmpty)
        {
            if (captures.TryDequeue(out RawCapture r))
                ReadCapture(r);
        }
        else
            await Task.Delay(stale);
    }
}
```

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```
/// <summary>
/// Finalises reading captures.
/// </summary>
private void FinaliseReadingCaptures()
{
    foreach (var r in captures)
        ReadCapture(r);
}


/// <summary>
/// Adds the capture to the queue. Drops packet if max queue size is exceded.
/// </summary>
private void AddCapture(object sender, CaptureEventArgs e)
{
    Total++;
    if (captures.Count >= MaxQueueSize)
        Dropped++;
    else
        captures.Enqueue(e.Packet);
}


/// <summary>
/// Stops capturing packets from the live device and processes those left in the queue.
/// </summary>
public void StopCapture()
{
    liveDevice.StopCapture();
    readCaptures = false;
    captureReader.Wait();
    FinaliseReadingCaptures();
}


/// <summary>
/// Starts listening device, capturing and processing packets.
/// </summary>
public void StartCapture()
{
    if (!liveDevice.Started)
        liveDevice.Open();
    liveDevice.StartCapture();
    readCaptures = true;
    captureReader = Task.Run(ReadCaptures);
}


/// <summary>
```

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```
        /// Initializes a new instance of the <see cref="T:LibBtntDtct.LiveCaptureFlowAdapter"/>
class.
        /// </summary>
        /// <param name="device">Device to initialise this adapter on.</param>
        public LiveCaptureFlowAdapter(ICaptureDevice device)
        {
            liveDevice = device;
            liveDevice.OnPacketArrival += AddCapture;
        }


        /// <summary>
        /// Initializes a new instance of the <see cref="T:LibBtntDtct.LiveCaptureFlowAdapter"/>
class.
        /// </summary>
        /// <param name="deviceName">Name of the device to initialise this adapter on.</param>
        public LiveCaptureFlowAdapter(string deviceName)
        {
            var deviceList = CaptureDeviceList.Instance;
            liveDevice = null;
            for(int i = 0; i < deviceList.Count; i++)
                if(deviceList[i].Name == deviceName)
                {
                    liveDevice = deviceList[i];
                    break;
                }
            if (liveDevice == null)
                throw new ArgumentException($"Device with name {deviceName} have not been
found.");
            liveDevice.OnPacketArrival += AddCapture;
        }

    }
}
```

2.9. PcapFlowAdapter.cs

```csharp
using System;
using SharpPcap.LibPcap;
using PacketDotNet;
using PacketDotNet.Utils;

namespace LibBtntDtct
{

    /// <summary>
    /// Used to meter flows from packets of a pcap file.
    /// </summary>
    public class PcapFlowAdapter : FlowAdapter, IDisposable
    {
        /// <summary>
        /// Error handling options.
        /// </summary>
        public enum Options
        {
            Strict,
            IgnoreMinorErrors,
            IgnoreMajorErrors,
        }

        /// <summary>
        /// Pcap dump reader device.
        /// </summary>
        /// <value>The reader device.</value>
        public CaptureFileReaderDevice ReaderDevice { get; private set; }

        /// <summary>
        /// Represents error handling policy of this adapter.
        /// </summary>
        public Options Option { get; set; }

        /// <summary>
        /// Reads the next pcap packet from the file.
        /// </summary>
        /// <returns>SharpPcap staus code.</returns>
        public int ReadNextPcapPacket()
        {
            int status = 0;
            SharpPcap.RawCapture p;
            switch (Option)
            {
                case Options.Strict:
```

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```
                status = ReaderDevice.GetNextPacket(out p);
                if (status != 1)
                    return status;
                ReadPacket(new EthernetPacket(new ByteArraySegment(p.Data)), p.Timeval.Date,
false);
                break;
            case Options.IgnoreMinorErrors:
                ReaderDevice.GetNextPacket(out p);
                if (status != 1)
                    return status;
                ReadPacket(new EthernetPacket(new ByteArraySegment(p.Data)), p.Timeval.Date,
true);
                break;
            case Options.IgnoreMajorErrors:
                try
                {
                    ReaderDevice.GetNextPacket(out p);
                    if (status != 1)
                        return status;
                    ReadPacket(new EthernetPacket(new ByteArraySegment(p.Data)),
p.Timeval.Date, true);
                    break;
                }
                catch
                {

                }
                break;
        }
        return status;
    }

    public void Dispose()
    {
        try
        {
            ReaderDevice.Close();
        }
        catch
        {

        }
        ReaderDevice = null;
    }

    /// <summary>
```

```
/// Initializes a new instance of the <see cref="T:LibBtntDtct.PcapFlowAdapter"/> class.
/// </summary>
/// <param name="filePath">Pcap file path to initialise this adapter on.</param>
public PcapFlowAdapter(string filePath) : base()
{
    ReaderDevice = new CaptureFileReaderDevice(filePath);
}
}
}
```

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2.10.   DefaultTree.cs

```
// This file has been automatically generated by the
//
// Accord Machine Learning Library
// The Accord.NET Framework
// http://accord-framework.net
//


/*
 * However, namespace and class name were changed to what they are now.
 * Also removed semicolon after the "if (double.IsNaN(input[i]))" so it is not useless.
 */


namespace LibBtntDtct
{
    using System.CodeDom.Compiler;
    using System;

    /// <summary>
    ///   Automatically generated decision tree.
    /// </summary>
    ///
    [GeneratedCode("Accord.NET DecisionTree", "3.8.2.0")]
    internal static class DefaultTree
    {

        /// <summary>
        ///   Assigns a class label to a given input.
        /// </summary>
        ///
        internal static int Function(double[] input)
        {
            for (int i = 0; i < input.Length; i++)
            {
                if (double.IsNaN(input[i]))
                    throw new ArgumentException("Missing values are not supported at this time.
Please open a new issue at the issue tracker if you need this feature.");
            }

            if (input[1] <= 244.511527420214) {
                if (input[1] <= 16.8432737388935) {
                    if (input[0] <= 23.3473612374886) {
                        if (input[2] <= 0.333518415694984) {
                            if (input[3] <= 24.3257935) {
                                if (input[0] <= 0.0625) {
                                    if (input[1] <= 10.4594664098348) {
```

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```
                                if (input[1] <= 10.0676676175519) {
                                    return 0;
                                }
                                else if (input[1] > 10.0676676175519) {
                                    return 1;
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 1.");
                            }
                            else if (input[1] > 10.4594664098348) {
                                return 0;
                            }
                            else throw new ArgumentException("input", "Unexpected value
at position 1.");
                        }
                        else if (input[0] > 0.0625) {
                            return 1;
                        }
                        else throw new ArgumentException("input", "Unexpected value at
position 0.");
                    }
                    else if (input[3] > 24.3257935) {
                        if (input[1] <= 3.19074641414619) {
                            return 0;
                        }
                        else if (input[1] > 3.19074641414619) {
                            if (input[1] <= 9.14543534173619) {
                                if (input[3] <= 31.303502) {
                                    if (input[1] <= 4.24877213655415) {
                                        return 0;
                                    }
                                    else if (input[1] > 4.24877213655415) {
                                        if (input[3] <= 29.4910825) {
                                            return 1;
                                        }
                                        else if (input[3] > 29.4910825) {
                                            if (input[0] <= 0.0625) {
                                                if (input[2] <= 0.200238663484487) {
                                                    return 0;
                                                }
                                                else if (input[2] > 0.200238663484487) {
                                                    return 1;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                            }
```

```
                                        else if (input[0] > 0.0625) {
                                            return 1;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 1.");
                            }
                            else if (input[3] > 31.303502) {
                                return 1;
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 3.");
                        }
                        else if (input[1] > 9.14543534173619) {
                            if (input[0] <= 11.4772727272727) {
                                return 0;
                            }
                            else if (input[0] > 11.4772727272727) {
                                return 1;
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 0.");
                        }
                        else throw new ArgumentException("input", "Unexpected value
at position 1.");
                    }
                    else throw new ArgumentException("input", "Unexpected value at
position 1.");
                }
                else throw new ArgumentException("input", "Unexpected value at
position 3.");
            }
            else if (input[2] > 0.333518415694984) {
                if (input[0] <= 0.0625) {
                    if (input[3] <= 53.173022) {
                        if (input[1] <= 10.1740034594645) {
                            if (input[2] <= 0.859340659340659) {
                                if (input[2] <= 0.750067312870221) {
                                    if (input[2] <= 0.500656167979003) {
                                        return 0;
                                    }
```

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```
                else if (input[2] > 0.500656167979003) {
                    if (input[1] <= 6.30395439958979) {
                        if (input[1] <= 3.97441449367352) {
                            return 0;
                        }
                        else if (input[1] > 3.97441449367352) {
                            return 1;
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                    }
                    else if (input[1] > 6.30395439958979) {
                        return 0;
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                }
                else throw new ArgumentException("input",
"Unexpected value at position 2.");
            }
            else if (input[2] > 0.750067312870221) {
                return 1;
            }
            else throw new ArgumentException("input", "Unexpected
value at position 2.");
        }
        else if (input[2] > 0.859340659340659) {
            if (input[3] <= 41.711243) {
                if (input[1] <= 5.22389510133776) {
                    return 0;
                }
                else if (input[1] > 5.22389510133776) {
                    if (input[1] <= 5.23510697759344) {
                        return 1;
                    }
                    else if (input[1] > 5.23510697759344) {
                        if (input[1] <= 6.68611903209579) {
                            if (input[1] <= 6.68491257847398) {
                                if (input[1] <= 6.65716880877291)
{
                                    return 0;
                                }
                                else if (input[1] >
6.65716880877291) {
                                    if (input[1] <=
6.65878973341338) {
```

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```
                                                        return 1;
                                                    }
                                                    else if (input[1] >
6.65878973341338) {

                                                        if (input[3] <=
30.030754) {

                                                            return 0;
                                                        }
                                                        else if (input[3] >
30.030754) {

                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                            }
                                            else if (input[1] > 6.68491257847398)
{

                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                        }
                                        else if (input[1] > 6.68611903209579) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");

                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");

                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");

                            }
                            else if (input[3] > 41.711243) {
                                if (input[1] <= 5.59811659828966) {
                                    if (input[3] <= 47.968501) {
                                        return 0;
                                    }
                                    else if (input[3] > 47.968501) {
```

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```
                                        if (input[3] <= 47.9695825) {
                                            return 1;
                                        }
                                        else if (input[3] > 47.9695825) {
                                            if (input[3] <= 48.0692405) {
                                                if (input[3] <= 48.052972) {
                                                    return 0;
                                                }
                                                else if (input[3] > 48.052972) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[3] > 48.0692405) {
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                }
                                else if (input[1] > 5.59811659828966) {
                                    return 1;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 3.");
                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 2.");
                    }
                    else if (input[1] > 10.1740034594645) {
                        if (input[3] <= 21.9308105) {
                            if (input[3] <= 9.5969025) {
                                if (input[1] <= 16.1591594556277) {
                                    if (input[3] <= 8.8237985) {
                                        return 0;
                                    }
                                    else if (input[3] > 8.8237985) {
```

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```
                                                if (input[1] <= 13.5284373176728) {
                                                    if (input[1] <= 13.3157617641319) {
                                                        return 0;
                                                    }
                                                    else if (input[1] > 13.3157617641319)
{
{
                                                        if (input[1] <= 13.3184181941808)
{
                                                            return 1;
                                                        }
                                                        else if (input[1] >
13.3184181941808) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[1] > 13.5284373176728) {
                                                    if (input[1] <= 16.0489148204342) {
                                                        if (input[3] <= 9.0537525) {
                                                            if (input[1] <=
15.9468103001972) {
                                                                return 1;
                                                            }
                                                            else if (input[1] >
15.9468103001972) {
                                                                if (input[1] <=
16.0378118158266) {
                                                                    return 0;
                                                                }
                                                                else if (input[1] >
16.0378118158266) {
                                                                    return 1;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else if (input[3] > 9.0537525) {
                                                            if (input[1] <=
15.0074032102446) {
```

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```
                return 1;
            }
            else if (input[1] >
15.0074032102446) {
                {
                    if (input[3] <= 9.05902)
9.05902) {
                        return 0;
                    }
                    else if (input[3] >
9.05902) {
                        return 0;
                    }
                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                }
                else throw new
ArgumentException("input", "Unexpected value at position 1.");
            }
            else throw new
ArgumentException("input", "Unexpected value at position 3.");
        }
        else if (input[1] > 16.0489148204342)
        {
            if (input[1] <= 16.1560381487744)
            {
                if (input[3] <= 8.9676835) {
                    if (input[1] <=
16.0577955758256) {
                        return 1;
                    }
                    else if (input[1] >
16.0577955758256) {
                        return 0;
                    }
                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                }
                else if (input[3] >
8.9676835) {
                    return 0;
                }
                else throw new
ArgumentException("input", "Unexpected value at position 3.");
            }
            else if (input[1] >
16.1560381487744) {
```

```
                                                        return 1;
                                                    }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                else if (input[1] > 16.1591594556277) {
                                    return 0;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                            else if (input[3] > 9.5969025) {
                                return 0;
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 3.");
                            }
                        else if (input[3] > 21.9308105) {
                            if (input[2] <= 0.428644426600482) {
                                return 0;
                            }
                            else if (input[2] > 0.428644426600482) {
                                return 1;
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 2.");
                            }
                        else throw new ArgumentException("input", "Unexpected
value at position 3.");
                        }
                    else throw new ArgumentException("input", "Unexpected value
at position 1.");
                    }
                else if (input[3] > 53.173022) {
                    if (input[1] <= 4.33831971683387) {
                        return 0;
                    }
```

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```
                                           else if (input[1] > 4.33831971683387) {
                                               return 1;
                                           }
                                           else throw new ArgumentException("input", "Unexpected value
at position 1.");
                                   }
                                   else throw new ArgumentException("input", "Unexpected value at
position 3.");
                           }
                           else if (input[0] > 0.0625) {
                               if (input[0] <= 2.34848484848485) {
                                   if (input[2] <= 0.859340659340659) {
                                       return 1;
                                   }
                                   else if (input[2] > 0.859340659340659) {
                                       if (input[3] <= 40.1405635) {
                                           if (input[3] <= 37.0149965) {
                                               if (input[3] <= 35.0204295) {
                                                   return 0;
                                               }
                                               else if (input[3] > 35.0204295) {
                                                   return 1;
                                               }
                                               else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                           }
                                           else if (input[3] > 37.0149965) {
                                               return 0;
                                           }
                                           else throw new ArgumentException("input", "Unexpected
value at position 3.");
                                       }
                                       else if (input[3] > 40.1405635) {
                                           if (input[1] <= 1.99233760306657) {
                                               return 0;
                                           }
                                           else if (input[1] > 1.99233760306657) {
                                               if (input[1] <= 2.4231087938003) {
                                                   return 1;
                                               }
                                               else if (input[1] > 2.4231087938003) {
                                                   if (input[1] <= 2.62603094124703) {
                                                       return 0;
                                                   }
                                                   else if (input[1] > 2.62603094124703) {
                                                       return 1;
```

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```
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 3.");
                            }
                            else throw new ArgumentException("input", "Unexpected value
at position 2.");
                        }
                        else if (input[0] > 2.34848484848485) {
                            if (input[2] <= 0.818982995421844) {
                                if (input[2] <= 0.428644426600482) {
                                    if (input[3] <= 42.3256165) {
                                        return 0;
                                    }
                                    else if (input[3] > 42.3256165) {
                                        if (input[1] <= 6.37156688605638) {
                                            return 0;
                                        }
                                        else if (input[1] > 6.37156688605638) {
                                            return 1;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 3.");
                                }
                                else if (input[2] > 0.428644426600482) {
                                    return 0;
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 2.");
                            }
                            else if (input[2] > 0.818982995421844) {
                                return 1;
                            }
                            else throw new ArgumentException("input", "Unexpected value
at position 2.");
```

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```
                            }
                            else throw new ArgumentException("input", "Unexpected value at
position 0.");
                        }
                        else throw new ArgumentException("input", "Unexpected value at
position 0.");
                    }
                    else throw new ArgumentException("input", "Unexpected value at position
2.");
                }
                else if (input[0] > 23.3473612374886) {
                    if (input[0] <= 36.3452380952381) {
                        if (input[2] <= 0.538838612368024) {
                            if (input[3] <= 23.3820365) {
                                if (input[1] <= 16.1646753677664) {
                                    return 0;
                                }
                                else if (input[1] > 16.1646753677664) {
                                    if (input[0] <= 34.2583333333333) {
                                        return 1;
                                    }
                                    else if (input[0] > 34.2583333333333) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                }
                                else throw new ArgumentException("input", "Unexpected value
at position 1.");
                            }
                            else if (input[3] > 23.3820365) {
                                if (input[2] <= 0.286021657918381) {
                                    return 0;
                                }
                                else if (input[2] > 0.286021657918381) {
                                    if (input[2] <= 0.428644426600482) {
                                        return 1;
                                    }
                                    else if (input[2] > 0.428644426600482) {
                                        if (input[0] <= 33.2583333333333) {
                                            return 0;
                                        }
                                        else if (input[0] > 33.2583333333333) {
                                            if (input[0] <= 34.2583333333333) {
                                                return 1;
                                            }
```

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```
                                                    else if (input[0] > 34.2583333333333) {
                                                        return 0;
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                                }
                                                else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                            }
                                            else throw new ArgumentException("input", "Unexpected
value at position 2.");
                                        }
                                        else throw new ArgumentException("input", "Unexpected value
at position 2.");
                                    }
                                    else throw new ArgumentException("input", "Unexpected value at
position 3.");
                                }
                                else if (input[2] > 0.538838612368024) {
                                    if (input[2] <= 0.71468089310413) {
                                        if (input[2] <= 0.69259191887037) {
                                            if (input[0] <= 25.8787114845938) {
                                                return 0;
                                            }
                                            else if (input[0] > 25.8787114845938) {
                                                if (input[2] <= 0.600170068027211) {
                                                    if (input[0] <= 29.4068965517241) {
                                                        return 0;
                                                    }
                                                    else if (input[0] > 29.4068965517241) {
                                                        return 1;
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                                }
                                                else if (input[2] > 0.600170068027211) {
                                                    return 1;
                                                }
                                                else throw new ArgumentException("input", "Unexpected
value at position 2.");
                                            }
                                            else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                        }
                                        else if (input[2] > 0.69259191887037) {
                                            return 0;
```

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```
                }
                else throw new ArgumentException("input", "Unexpected value
at position 2.");
            }
            else if (input[2] > 0.71468089310413) {
                if (input[0] <= 36.0178571428571) {
                    if (input[1] <= 5.59811659828966) {
                        if (input[1] <= 5.10298014375277) {
                            return 1;
                        }
                        else if (input[1] > 5.10298014375277) {
                            if (input[3] <= 25.7864335) {
                                return 0;
                            }
                            else if (input[3] > 25.7864335) {
                                return 1;
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 1.");
                    }
                    else if (input[1] > 5.59811659828966) {
                        if (input[3] <= 32.968291) {
                            if (input[3] <= 32.7976715) {
                                if (input[0] <= 28.015625) {
                                    return 1;
                                }
                                else if (input[0] > 28.015625) {
                                    if (input[0] <= 28.5227272727273) {
                                        return 0;
                                    }
                                    else if (input[0] > 28.5227272727273) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                            else if (input[3] > 32.7976715) {
                                return 0;
                            }
```

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```
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                    else if (input[3] > 32.968291) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 3.");
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 1.");
                            }
                            else if (input[0] > 36.0178571428571) {
                                return 0;
                            }
                            else throw new ArgumentException("input", "Unexpected value
at position 0.");
                        }
                        else throw new ArgumentException("input", "Unexpected value at
position 2.");
                    }
                    else throw new ArgumentException("input", "Unexpected value at
position 2.");
                }
                else if (input[0] > 36.3452380952381) {
                    if (input[3] <= 33.930542) {
                        if (input[1] <= 13.9767313528535) {
                            if (input[0] <= 55.0083333333333) {
                                if (input[3] <= 26.9776685) {
                                    return 0;
                                }
                                else if (input[3] > 26.9776685) {
                                    if (input[3] <= 27.011778) {
                                        return 1;
                                    }
                                    else if (input[3] > 27.011778) {
                                        if (input[0] <= 37.0178571428571) {
                                            if (input[1] <= 6.20976022279207) {
                                                return 0;
                                            }
                                            else if (input[1] > 6.20976022279207) {
                                                return 1;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
```

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```
else if (input[0] > 37.0178571428571) {
    if (input[2] <= 0.500656167979003) {
        return 0;
    }
    else if (input[2] > 0.500656167979003) {
        if (input[3] <= 32.429568) {
            if (input[3] <= 28.377863) {
                if (input[3] <= 28.125533) {
                    return 0;
                }
                else if (input[3] > 28.125533) {
                    return 1;
                }
                else throw new
ArgumentException("input", "Unexpected value at position 3.");
            }
            else if (input[3] > 28.377863) {
                return 0;
            }
            else throw new
ArgumentException("input", "Unexpected value at position 3.");
        }
        else if (input[3] > 32.429568) {
            if (input[0] <= 47.343137254902) {
                return 1;
            }
            else if (input[0] > 47.343137254902)
{
                return 0;
            }
            else throw new
ArgumentException("input", "Unexpected value at position 0.");
        }
        else throw new ArgumentException("input",
"Unexpected value at position 3.");
    }
    else throw new ArgumentException("input",
"Unexpected value at position 2.");
}
else throw new ArgumentException("input",
"Unexpected value at position 0.");
    }
    else throw new ArgumentException("input", "Unexpected
value at position 3.");
}
```

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```
                                            else throw new ArgumentException("input", "Unexpected
value at position 3.");
                    }
                else if (input[0] > 55.0083333333) {
                    if (input[0] <= 59.0147058823529) {
                        if (input[0] <= 57.0208333333333) {
                            return 1;
                        }
                        else if (input[0] > 57.0208333333333) {
                            if (input[1] <= 9.38488281913042) {
                                return 0;
                            }
                            else if (input[1] > 9.38488281913042) {
                                return 1;
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 0.");
                    }
                    else if (input[0] > 59.0147058823529) {
                        if (input[0] <= 89.0263157894737) {
                            if (input[3] <= 32.00478) {
                                if (input[1] <= 9.01036675754683) {
                                    if (input[1] <= 6.40421388205994) {
                                        if (input[0] <= 62.0288461538462) {
                                            return 0;
                                        }
                                        else if (input[0] > 62.0288461538462)
{
                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else if (input[1] > 6.40421388205994) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                                else if (input[1] > 9.01036675754683) {
                                    if (input[1] <= 9.30665362176856) {
                                        if (input[1] <= 9.05531021675132) {
                                            return 1;
```

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```
                                        }
                                        else if (input[1] > 9.05531021675132)
{
                                            if (input[1] <= 9.07161017541638)
{
                                                return 0;
                                            }
                                            else if (input[1] >
9.07161017541638) {
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else if (input[1] > 9.30665362176856) {
                                        if (input[3] <= 28.874745) {
                                            return 0;
                                        }
                                        else if (input[3] > 28.874745) {
                                            if (input[0] <= 77.0344827586207)
{
                                                return 1;
                                            }
                                            else if (input[0] >
77.0344827586207) {
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else if (input[3] > 32.00478) {
                                if (input[0] <= 63.0181818181818) {
                                    return 1;
                                }
```

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```
                                                else if (input[0] > 63.0181818181818) {
                                                    return 0;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 0.");

                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");

                                        }
                                        else if (input[0] > 89.0263157894737) {
                                            if (input[0] <= 101.015151515152) {
                                                return 1;
                                            }
                                            else if (input[0] > 101.015151515152) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");

                                        }
                                        else throw new ArgumentException("input", "Unexpected
value at position 0.");

                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 0.");

                                }
                                else throw new ArgumentException("input", "Unexpected value
at position 0.");

                            }
                            else if (input[1] > 13.9767313528535) {
                                if (input[1] <= 14.0857372203747) {
                                    return 1;
                                }
                                else if (input[1] > 14.0857372203747) {
                                    if (input[0] <= 54.0151515151515) {
                                        if (input[3] <= 28.1774845) {
                                            if (input[2] <= 0.400143472022956) {
                                                return 1;
                                            }
                                            else if (input[2] > 0.400143472022956) {
                                                if (input[2] <= 0.600170068027211) {
                                                    return 0;
                                                }
                                                else if (input[2] > 0.600170068027211) {
                                                    if (input[1] <= 15.0893585157555) {
                                                        return 0;
                                                    }
```

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```
                                            else if (input[1] > 15.0893585157555) {
                                                if (input[1] <= 15.2381379761414) {
                                                    return 1;
                                                }
                                                else if (input[1] > 15.2381379761414)
{

{

                                                    if (input[0] <= 52.6754385964912)
{

                                                        return 0;
                                                    }
                                                    else if (input[0] >
52.6754385964912) {

                                                        if (input[0] <=
53.0092592592593) {

                                                            return 1;
                                                        }
                                                        else if (input[0] >
53.0092592592593) {

                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                                else if (input[3] > 28.1774845) {
                                    if (input[2] <= 0.500656167979003) {
                                        return 0;
                                    }
                                    else if (input[2] > 0.500656167979003) {
                                        if (input[2] <= 0.666854143232096) {
                                            return 1;
                                        }
```

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```
                                        else if (input[2] > 0.666854143232096) {
                                            if (input[3] <= 28.8992885) {
                                                return 1;
                                            }
                                            else if (input[3] > 28.8992885) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");

                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");

                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");

                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 3.");

                            }
                            else if (input[0] > 54.0151515151515) {
                                if (input[0] <= 62.0288461538462) {
                                    return 1;
                                }
                                else if (input[0] > 62.0288461538462) {
                                    if (input[3] <= 19.898496) {
                                        return 1;
                                    }
                                    else if (input[3] > 19.898496) {
                                        if (input[0] <= 74.2678571428571) {
                                            if (input[0] <= 64.4327485380117) {
                                                return 0;
                                            }
                                            else if (input[0] > 64.4327485380117) {
                                                return 1;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");

                                        }
                                        else if (input[0] > 74.2678571428571) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");

                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
```

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```
                                                }
                                                else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                        }
                                        else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                }
                                else throw new ArgumentException("input", "Unexpected value
at position 1.");
                        }
                        else throw new ArgumentException("input", "Unexpected value at
position 1.");
                }
                else if (input[3] > 33.930542) {
                    if (input[1] <= 9.01036675754683) {
                        if (input[2] <= 0.750067312870221) {
                            return 0;
                        }
                        else if (input[2] > 0.750067312870221) {
                            if (input[0] <= 45.343137254902) {
                                return 1;
                            }
                            else if (input[0] > 45.343137254902) {
                                if (input[3] <= 49.171208) {
                                    if (input[0] <= 100.038461538462) {
                                        if (input[3] <= 46.139137) {
                                            if (input[3] <= 38.3905615) {
                                                return 0;
                                            }
                                            else if (input[3] > 38.3905615) {
                                                if (input[0] <= 65.0304054054054) {
                                                    if (input[0] <= 52.0110410094637)
{

                                                        return 0;
                                                    }
                                                    else if (input[0] >
52.0110410094637) {

                                                        if (input[3] <= 42.5753455) {
                                                            return 1;
                                                        }
                                                        else if (input[3] >
42.5753455) {

                                                            if (input[1] <=
4.68948919034781) {

                                                                return 0;
                                                            }
```

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```
                                            else if (input[1] >
4.68948919034781) {
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else if (input[0] > 65.0304054054054)
{
                                    return 0;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                        }
                        else if (input[3] > 46.139137) {
                            return 0;
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                    }
                    else if (input[0] > 100.038461538462) {
                        return 1;
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                }
                else if (input[3] > 49.171208) {
                    if (input[0] <= 48.0041712005803) {
                        return 0;
                    }
                    else if (input[0] > 48.0041712005803) {
                        if (input[1] <= 8.00395087923356) {
                            return 1;
                        }
                        else if (input[1] > 8.00395087923356) {
                            return 0;
                        }
```

```
                                      else throw new ArgumentException("input",
"Unexpected value at position 1.");
                             }
                             else throw new ArgumentException("input",
"Unexpected value at position 0.");
                     }
                     else throw new ArgumentException("input", "Unexpected
value at position 3.");
                 }
                 else throw new ArgumentException("input", "Unexpected
value at position 0.");
             }
             else throw new ArgumentException("input", "Unexpected value
at position 2.");
         }
         else if (input[1] > 9.01036675754683) {
             if (input[2] <= 0.600170068027211) {
                 if (input[0] <= 39.5977099236641) {
                     return 1;
                 }
                 else if (input[0] > 39.5977099236641) {
                     if (input[1] <= 9.01967865663268) {
                         return 1;
                     }
                     else if (input[1] > 9.01967865663268) {
                         if (input[0] <= 117.354166666667) {
                             if (input[3] <= 42.489503) {
                                 return 0;
                             }
                             else if (input[3] > 42.489503) {
                                 if (input[3] <= 46.679733) {
                                     return 1;
                                 }
                                 else if (input[3] > 46.679733) {
                                     if (input[0] <= 84.5857142857143) {
                                         if (input[0] <= 40.5577777777778)
{
                                             return 0;
                                         }
                                         else if (input[0] >
40.5577777777778) {
                                             return 1;
                                         }
                                         else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                     }
```

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```
                                                 else if (input[0] > 84.5857142857143)
{
                                                     return 0;
                                                 }
                                                 else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                             }
                                             else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                         }
                                         else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                     }
                                     else if (input[0] > 117.354166666667) {
                                         if (input[1] <= 15.0410838657017) {
                                             return 1;
                                         }
                                         else if (input[1] > 15.0410838657017) {
                                             return 0;
                                         }
                                         else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                     }
                                     else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                 }
                                 else throw new ArgumentException("input", "Unexpected
value at position 1.");
                             }
                             else throw new ArgumentException("input", "Unexpected
value at position 0.");
                         }
                         else if (input[2] > 0.600170068027211) {
                             if (input[2] <= 0.727833894500561) {
                                 if (input[0] <= 37.343137254902) {
                                     return 0;
                                 }
                                 else if (input[0] > 37.343137254902) {
                                     return 1;
                                 }
                                 else throw new ArgumentException("input", "Unexpected
value at position 0.");
                             }
                             else if (input[2] > 0.727833894500561) {
                                 if (input[1] <= 15.6050340490383) {
                                     if (input[0] <= 86.0263157894737) {
```

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```
                                    if (input[0] <= 55.2071428571429) {
                                        if (input[2] <= 0.800172117039587) {
                                            return 1;
                                        }
                                        else if (input[2] > 0.800172117039587) {
                                            if (input[0] <= 38.0178571428571) {
                                                return 1;
                                            }
                                            else if (input[0] > 38.0178571428571)
{
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                    }
                                    else if (input[0] > 55.2071428571429) {
                                        if (input[1] <= 15.0670915745087) {
                                            return 1;
                                        }
                                        else if (input[1] > 15.0670915745087) {
                                            if (input[1] <= 15.112550370454) {
                                                return 0;
                                            }
                                            else if (input[1] > 15.112550370454)
{
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[0] > 86.0263157894737) {
                                    if (input[1] <= 13.5411763363577) {
                                        return 0;
                                    }
                                    else if (input[1] > 13.5411763363577) {
                                        if (input[0] <= 197.366666666667) {
                                            return 1;
```

```
                                            }
                                            else if (input[0] > 197.366666666667) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[1] > 15.6050340490383) {
                                    if (input[0] <= 39.5178571428571) {
                                        return 1;
                                    }
                                    else if (input[0] > 39.5178571428571) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 1.");
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 2.");
                        }
                        else throw new ArgumentException("input", "Unexpected value
at position 2.");
                    }
                    else throw new ArgumentException("input", "Unexpected value at
position 1.");
                }
                else throw new ArgumentException("input", "Unexpected value at
position 3.");
            }
            else throw new ArgumentException("input", "Unexpected value at position
0.");
        }
        else throw new ArgumentException("input", "Unexpected value at position 0.");
    }
    else if (input[1] > 16.8432737388935) {
        if (input[2] <= 0.566681894320085) {
            if (input[3] <= 57.12228) {
```

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```
if (input[2] <= 0.355561836568055) {
    if (input[0] <= 72.5916666666667) {
        if (input[1] <= 53.0858614474738) {
            if (input[0] <= 0.0625) {
                if (input[2] <= 0.200238663484487) {
                    return 1;
                }
                else if (input[2] > 0.200238663484487) {
                    if (input[1] <= 22.8671469506463) {
                        if (input[1] <= 17.0055869516759) {
                            return 1;
                        }
                        else if (input[1] > 17.0055869516759) {
                            return 0;
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                    }
                    else if (input[1] > 22.8671469506463) {
                        if (input[1] <= 23.1328549278473) {
                            return 1;
                        }
                        else if (input[1] > 23.1328549278473) {
                            if (input[3] <= 4.619285) {
                                return 0;
                            }
                            else if (input[3] > 4.619285) {
                                if (input[1] <= 24.9622123567388) {
                                    return 0;
                                }
                                else if (input[1] > 24.9622123567388)
{
                                    if (input[1] <= 35.5671933291533)
{
                                        if (input[3] <= 5.174125) {
                                            return 1;
                                        }
                                        else if (input[3] > 5.174125)
{
                                            if (input[3] <= 9.19882)
{
                                                return 0;
                                            }
                                            else if (input[3] >
9.19882) {
                                                return 1;
```

```
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[1] >
35.5671933291533) {

                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 2.");
                    }
                    else if (input[0] > 0.0625) {
                        if (input[0] <= 3.70883777239709) {
                            return 1;
                        }
                        else if (input[0] > 3.70883777239709) {
                            if (input[0] <= 24.775) {
                                return 0;
                            }
                            else if (input[0] > 24.775) {
                                if (input[0] <= 48.0041712005803) {
                                    if (input[3] <= 5.6991845) {
                                        if (input[0] <= 25.016339869281) {
                                            return 1;
                                        }
                                        else if (input[0] > 25.016339869281)
{
                                            return 0;
```

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```
                                                            }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                else if (input[3] > 5.6991845) {
                                                    if (input[0] <= 28.015625) {
                                                        if (input[0] <= 24.8166666666667)
{
                                                            return 1;
                                                        }
                                                        else if (input[0] >
24.8166666666667) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[0] > 28.015625) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                            }
                                            else if (input[0] > 48.0041712005803) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 0.");
                            }
                            else if (input[1] > 53.0858614474738) {
                                if (input[3] <= 2.9967655) {
                                    if (input[0] <= 8.05555555555556) {
                                        if (input[1] <= 96.2168045173176) {
                                            if (input[2] <= 0.200238663484487) {
```

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```
                            return 1;
                        }
                    else if (input[2] > 0.200238663484487) {
                        if (input[3] <= 1.3062475) {
                            return 0;
                        }
                        else if (input[3] > 1.3062475) {
                            if (input[1] <= 79.0322041286579) {
                                if (input[1] <= 57.3420525477644)
                                {

                                    return 1;
                                }
                                else if (input[1] >
57.3420525477644) {

                                    return 0;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                            }
                            else if (input[1] > 79.0322041286579)
                            {

                                return 1;
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                }
                else if (input[1] > 96.2168045173176) {
                    if (input[3] <= 1.070741) {
                        if (input[3] <= 1.067258) {
                            if (input[1] <= 133.554110958082) {
                                if (input[3] <= 0.9597115) {
                                    return 0;
                                }
                                else if (input[3] > 0.9597115) {
                                    return 1;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
```

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```
                                                    else if (input[1] > 133.554110958082)
{
                                                        if (input[3] <= 0.5836315) {
                                                            if (input[1] <=
205.643109051656) {

                                                                return 0;
                                                            }
                                                            else if (input[1] >
205.643109051656) {

                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else if (input[3] > 0.5836315) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[3] > 1.067258) {
                                                    return 0;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                            }
                                            else if (input[3] > 1.070741) {
                                                return 1;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else if (input[0] > 8.05555555555556) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                }
                                else if (input[3] > 2.9967655) {
                                    if (input[0] <= 44.0854545454545) {
```

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```
                    return 1;
                }
                else if (input[0] > 44.0854545454545) {
                    if (input[0] <= 47.2583333333333) {
                        return 0;
                    }
                    else if (input[0] > 47.2583333333333) {
                        if (input[3] <= 14.9368335) {
                            if (input[0] <= 47.8019607843137) {
                                return 1;
                            }
                            else if (input[0] > 47.8019607843137) {
                                if (input[0] <= 60.8452380952381) {
                                    return 0;
                                }
                                else if (input[0] > 60.8452380952381)
{

                                    return 1;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                        else if (input[3] > 14.9368335) {
                            if (input[0] <= 48.0041712005803) {
                                return 0;
                            }
                            else if (input[0] > 48.0041712005803) {
                                if (input[0] <= 65.2613636363636) {
                                    return 1;
                                }
                                else if (input[0] > 65.2613636363636)
{

                                    return 0;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                    }
```

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```
                                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                    else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                }
                            else throw new ArgumentException("input", "Unexpected
value at position 3.");
                        }
                    else throw new ArgumentException("input", "Unexpected value
at position 1.");
                }
            else if (input[0] > 72.5916666666667) {
                if (input[2] <= 0.250368731563422) {
                    return 1;
                }
                else if (input[2] > 0.250368731563422) {
                    if (input[1] <= 49.5780658740753) {
                        if (input[1] <= 17.8398920547864) {
                            return 0;
                        }
                        else if (input[1] > 17.8398920547864) {
                            if (input[3] <= 28.8010955) {
                                if (input[1] <= 47.4667132020007) {
                                    if (input[0] <= 158.854166666667) {
                                        if (input[3] <= 22.3185875) {
                                            if (input[3] <= 18.5401875) {
                                                return 0;
                                            }
                                            else if (input[3] > 18.5401875) {
                                                if (input[3] <= 19.822498) {
                                                    return 1;
                                                }
                                                else if (input[3] >
19.822498) {
                                                    if (input[3] <=
22.038037) {
                                                        return 0;
                                                    }
                                                    else if (input[3] >
22.038037) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
```

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```
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else if (input[3] > 22.3185875) {
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else if (input[0] > 158.854166666667) {
                                        if (input[1] <= 41.9188077656197) {
                                            return 1;
                                        }
                                        else if (input[1] > 41.9188077656197)
{
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[1] > 47.4667132020007) {
                                    return 1;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else if (input[3] > 28.8010955) {
                                if (input[3] <= 39.5086465) {
                                    if (input[0] <= 215.033333333333) {
                                        if (input[1] <= 40.8303718766709) {
                                            if (input[1] <= 22.7404953417445)
{
                                                return 1;
                                            }
                                            else if (input[1] >
22.7404953417445) {
                                                if (input[1] <=
23.2105537731121) {
                                                    return 0;
                                                }
```

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```
                                            else if (input[1] >
23.2105537731121) {

                                                if (input[1] <=
23.8028268943113) {

                                                    return 1;
                                                }
                                                else if (input[1] >
23.8028268943113) {

                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                    }
                                    else if (input[1] > 40.8303718766709)
{

                                        if (input[1] <= 46.2612852049544)
{

                                            return 0;
                                        }
                                        else if (input[1] >
46.2612852049544) {

                                            if (input[0] <=
201.354166666667) {

                                                return 1;
                                            }
                                            else if (input[0] >
201.354166666667) {

                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                }
                                else if (input[0] > 215.033333333333) {

                                    if (input[0] <= 225.878205128205) {
```

```
                                                return 1;
                                            }
                                        else if (input[0] > 225.878205128205)
{
                                                if (input[0] <= 231.05) {
                                                    return 0;
                                                }
                                                else if (input[0] > 231.05) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                    else if (input[3] > 39.5086465) {
                        if (input[0] <= 101.015151515152) {
                            if (input[0] <= 88.7722222222222) {
                                return 0;
                            }
                            else if (input[0] > 88.7722222222222)
{
                                return 1;
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                        }
                        else if (input[0] > 101.015151515152) {
                            if (input[1] <= 28.363495317155) {
                                if (input[0] <= 131.027777777778)
{
                                    return 0;
                                }
                                else if (input[0] >
131.027777777778) {
                                    if (input[0] <= 160.05) {
                                        if (input[3] <=
52.0010775) {
                                            return 1;
                                        }
                                        else if (input[3] >
52.0010775) {
```

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```
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else if (input[0] > 160.05) {
                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                            }
                            else if (input[1] > 28.363495317155)
{
                                return 0;
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                }
                else throw new ArgumentException("input",
"Unexpected value at position 3.");
            }
            else throw new ArgumentException("input", "Unexpected
value at position 1.");
        }
        else if (input[1] > 49.5780658740753) {
            if (input[2] <= 0.294427244582043) {
                if (input[0] <= 89.2970588235294) {
                    return 1;
                }
                else if (input[0] > 89.2970588235294) {
                    return 0;
                }
                else throw new ArgumentException("input",
"Unexpected value at position 0.");
            }
            else if (input[2] > 0.294427244582043) {
                if (input[0] <= 229.964285714286) {
```

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```
                                                if (input[3] <= 3.739475) {
                                                    if (input[1] <= 213.372600010369) {
                                                        if (input[0] <= 80.8397435897436) {
                                                            return 0;
                                                        }
                                                        else if (input[0] > 80.8397435897436)
{
{
                                                            if (input[0] <= 82.8397435897436)
                                                            {
                                                                return 1;
                                                            }
                                                            else if (input[0] >
82.8397435897436) {
                                                                if (input[0] <=
88.0079617834395) {
                                                                    return 0;
                                                                }
                                                                else if (input[0] >
88.0079617834395) {
                                                                    return 1;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[1] > 213.372600010369) {
                                                        return 0;
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                                }
                                                else if (input[3] > 3.739475) {
                                                    if (input[0] <= 101.015151515152) {
                                                        if (input[0] <= 100.746428571429) {
                                                            if (input[3] <= 22.4514435) {
                                                                if (input[3] <= 4.3478435) {
                                                                    if (input[1] <=
153.025042891977) {
                                                                        return 1;
                                                                    }
```

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```
                        else if (input[1] > 153.025042891977) {
                            return 0;
                        }
                        else throw new ArgumentException("input", "Unexpected value at position 1.");
                    }
                    else if (input[3] > 4.3478435) {
                        if (input[1] <= 118.560502979899) {
                            return 0;
                        }
                        else if (input[1] > 118.560502979899) {
                            return 0;
                        }
                        else throw new ArgumentException("input", "Unexpected value at position 1.");
                    }
                    else throw new ArgumentException("input", "Unexpected value at position 3.");
                }
                else if (input[3] > 22.4514435) {
                    if (input[0] <= 80.9761904761905) {
                        return 1;
                    }
                    else if (input[0] > 80.9761904761905) {
                        if (input[3] <= 23.2800525) {
                            return 1;
                        }
                        else if (input[3] > 23.2800525) {
                            return 0;
                        }
                        else throw new ArgumentException("input", "Unexpected value at position 3.");
                    }
                    else throw new ArgumentException("input", "Unexpected value at position 0.");
                }
                else throw new ArgumentException("input", "Unexpected value at position 3.");
```

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```
                                                            }
                                                            else if (input[0] > 100.746428571429)
{
                                                                if (input[1] <= 87.4731830907289)
{
                                                                    return 1;
                                                                }
                                                                else if (input[1] >
87.4731830907289) {
                                                                    if (input[1] <=
130.341694620141) {
                                                                        return 0;
                                                                    }
                                                                    else if (input[1] >
130.341694620141) {
                                                                        return 1;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[0] > 101.015151515152) {
                                                            if (input[0] <= 144.977272727273) {
                                                                return 0;
                                                            }
                                                            else if (input[0] > 144.977272727273)
{
                                                                if (input[0] <= 160.05) {
                                                                    if (input[0] <=
159.816666666667) {
                                                                        if (input[0] <=
145.033333333333) {
                                                                            return 1;
                                                                        }
                                                                        else if (input[0] >
145.033333333333) {
                                                                            return 0;
                                                                        }
                                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                                    }
```

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```
                                                    else if (input[0] >
159.816666666667) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else if (input[0] > 160.05) {
                                                    if (input[3] <= 26.214883) {
                                                        if (input[3] <=
26.145317) {

                                                            return 0;
                                                        }
                                                        else if (input[3] >
26.145317) {

                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                    }
                                                    else if (input[3] >
26.214883) {

                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");

                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");

                                }
                                else if (input[0] > 229.964285714286) {
                                    if (input[0] <= 235.041666666667) {
                                        if (input[0] <= 232.870431893688) {
                                            if (input[0] <= 230.041666666667) {
                                                return 1;
                                            }
```

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```
                                                else if (input[0] > 230.041666666667)
{
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                        else if (input[0] > 232.870431893688) {
                                            if (input[3] <= 38.175761) {
                                                return 1;
                                            }
                                            else if (input[3] > 38.175761) {
                                                if (input[0] <= 234.258415841584)
{
                                                    return 0;
                                                }
                                                else if (input[0] >
234.258415841584) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else if (input[0] > 235.041666666667) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                        else throw new ArgumentException("input", "Unexpected
value at position 2.");
                    }
                    else throw new ArgumentException("input", "Unexpected
value at position 1.");
                }
            else throw new ArgumentException("input", "Unexpected value
at position 2.");
```

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```
                                        }
                                        else throw new ArgumentException("input", "Unexpected value at
position 0.");
                                }
                                else if (input[2] > 0.355561836568055) {
                                        if (input[0] <= 38.5442307692308) {
                                                if (input[0] <= 13.6181818181818) {
                                                        if (input[2] <= 0.428644426600482) {
                                                                if (input[0] <= 0.0625) {
                                                                        if (input[2] <= 0.400143472022956) {
                                                                                return 0;
                                                                        }
                                                                        else if (input[2] > 0.400143472022956) {
                                                                                if (input[1] <= 106.723640737446) {
                                                                                        if (input[1] <= 57.9571902676341) {
                                                                                                return 1;
                                                                                        }
                                                                                        else if (input[1] > 57.9571902676341) {
                                                                                                return 0;
                                                                                        }
                                                                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                                                                }
                                                                                else if (input[1] > 106.723640737446) {
                                                                                        if (input[3] <= 1.4352935) {
                                                                                                if (input[1] <= 195.500189174466) {
                                                                                                        return 0;
                                                                                                }
                                                                                                else if (input[1] > 195.500189174466)
{
                                                                                                        return 1;
                                                                                                }
                                                                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                                        }
                                                                                        else if (input[3] > 1.4352935) {
                                                                                                return 1;
                                                                                        }
                                                                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                                                                }
                                                                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                                                        }
                                                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
```

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```
                                                            }
                                                            else if (input[0] > 0.0625) {
                                                                if (input[2] <= 0.368465132680949) {
                                                                    return 1;
                                                                }
                                                                else if (input[2] > 0.368465132680949) {
                                                                    return 0;
                                                                }
                                                                else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                                            }
                                                            else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                                        }
                                                        else if (input[2] > 0.428644426600482) {
                                                            if (input[1] <= 207.988455219762) {
                                                                if (input[3] <= 0.958266) {
                                                                    return 0;
                                                                }
                                                                else if (input[3] > 0.958266) {
                                                                    if (input[3] <= 1.344216) {
                                                                        if (input[3] <= 0.9627655) {
                                                                            return 1;
                                                                        }
                                                                        else if (input[3] > 0.9627655) {
                                                                            if (input[3] <= 1.338212) {
                                                                                if (input[3] <= 1.306443) {
                                                                                    if (input[3] <= 1.2904625) {
                                                                                        if (input[1] <=
142.663051696137) {
                                                                                            return 0;
                                                                                        }
                                                                                        else if (input[1] >
142.663051696137) {
                                                                                            return 0;
                                                                                        }
                                                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                                    }
                                                                                    else if (input[3] >
1.2904625) {
                                                                                        return 1;
                                                                                    }
                                                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                                                }
```

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```
                                    else if (input[3] > 1.306443) {
                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
                                else if (input[3] > 1.338212) {
                                    return 1;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                        }
                        else if (input[3] > 1.344216) {
                            if (input[1] <= 64.6607985447536) {
                                if (input[1] <= 31.9510192377484) {
                                    if (input[1] <= 31.9182183871596)
{
                                        if (input[0] <= 12.225) {
                                            return 0;
                                        }
                                        else if (input[0] > 12.225) {
                                            if (input[0] <= 12.275) {
                                                return 1;
                                            }
                                            else if (input[0] >
12.275) {
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else if (input[1] >
31.9182183871596) {
                                        return 1;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                }
                                else if (input[1] > 31.9510192377484)
{
```

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```
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[1] > 64.6607985447536) {
                                                if (input[3] <= 7.1168235) {
                                                    if (input[1] <= 149.607573877788)
{
                                                        return 0;
                                                    }
                                                    else if (input[1] >
149.607573877788) {
                                                        if (input[1] <=
150.033521250591) {
                                                            return 1;
                                                        }
                                                        else if (input[1] >
150.033521250591) {
                                                            if (input[1] <=
180.113344245361) {
                                                                return 0;
                                                            }
                                                            else if (input[1] >
180.113344245361) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[3] > 7.1168235) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
```

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```
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                            }
                        else if (input[1] > 207.988455219762) {
                            if (input[2] <= 0.500656167979003) {
                                if (input[1] <= 209.380815376259) {
                                    return 1;
                                }
                                else if (input[1] > 209.380815376259) {
                                    if (input[3] <= 0.76388) {
                                        if (input[1] <= 242.89044993482) {
                                            if (input[3] <= 0.716629) {
                                                return 0;
                                            }
                                            else if (input[3] > 0.716629) {
                                                if (input[3] <= 0.7178735) {
                                                    return 1;
                                                }
                                                else if (input[3] >
0.7178735) {

                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else if (input[1] > 242.89044993482)
{

                                            if (input[1] <= 243.007284040433)
{

                                                return 1;
                                            }
                                            else if (input[1] >
243.007284040433) {

                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
```

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```
                }
                else if (input[3] > 0.76388) {
                    if (input[3] <= 0.8346595) {
                        return 1;
                    }
                    else if (input[3] > 0.8346595) {
                        if (input[3] <= 1.5529925) {
                            if (input[3] <= 1.2331365) {
                                if (input[1] <=
214.102783197651) {

                                    return 1;
                                }
                                else if (input[1] >
214.102783197651) {

                                    return 0;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 1.");

                            }
                            else if (input[3] >
1.2331365) {

                                return 0;
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 3.");

                        }
                        else if (input[3] > 1.5529925) {
                            return 1;
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 3.");

                    }
                    else throw new
ArgumentException("input", "Unexpected value at position 3.");

                }
                else throw new ArgumentException("input",
"Unexpected value at position 3.");

            }
            else throw new ArgumentException("input",
"Unexpected value at position 1.");

        }
        else if (input[2] > 0.500656167979003) {
            return 1;
        }
        else throw new ArgumentException("input",
"Unexpected value at position 2.");
```

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```
                                                    }
                                        else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                    }
                                else throw new ArgumentException("input", "Unexpected
value at position 2.");
                            }
                        else if (input[0] > 13.6181818181818) {
                            if (input[3] <= 14.5878095) {
                                if (input[3] <= 10.0184645) {
                                    if (input[0] <= 18.775) {
                                        if (input[0] <= 18.7416666666667) {
                                            if (input[2] <= 0.37505152514427) {
                                                return 1;
                                            }
                                            else if (input[2] > 0.37505152514427) {
                                                if (input[0] <= 14.2899159663866) {
                                                    if (input[0] <= 14.2071428571429)
{
                                                        return 0;
                                                    }
                                                    else if (input[0] >
14.2071428571429) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else if (input[0] > 14.2899159663866)
{
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                        }
                                        else if (input[0] > 18.7416666666667) {
                                            if (input[1] <= 216.155765583411) {
                                                return 1;
                                            }
                                            else if (input[1] > 216.155765583411) {
                                                if (input[1] <= 234.227848996597) {
                                                    return 0;
                                                }
```

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```
                                               else if (input[1] > 234.227748996597)
{
                                                   return 1;
                                               }
                                               else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                           }
                                           else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                       }
                                       else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                   }
                                   else if (input[0] > 18.775) {
                                       if (input[2] <= 0.500656167979003) {
                                           if (input[2] <= 0.428644426600482) {
                                               if (input[2] <= 0.400143472022956) {
                                                   return 0;
                                               }
                                               else if (input[2] >
0.400143472022956) {

                                                   return 1;
                                               }
                                               else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                           }
                                           else if (input[2] > 0.428644426600482) {
                                               if (input[0] <= 23.0060240963855) {
                                                   return 0;
                                               }
                                               else if (input[0] > 23.0060240963855)
{

                                                   if (input[0] <= 34.2583333333333)
{

                                                       if (input[0] <=
34.0178571428571) {

                                                           if (input[0] <=
24.0135135135135) {

                                                               return 1;
                                                           }
                                                           else if (input[0] >
24.0135135135135) {

                                                               return 0;
                                                           }
                                                           else throw new
ArgumentException("input", "Unexpected value at position 0.");
```

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```
                                                                    }
                                                                    else if (input[0] >
34.0178571428571) {

                                                                        return 1;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                                }
                                                                else if (input[0] >
34.2583333333333) {

                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                                    }
                                                    else if (input[2] > 0.500656167979003) {
                                                        return 0;
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                            }
                                            else if (input[3] > 10.0184645) {
                                                if (input[1] <= 120.656753454273) {
                                                    if (input[0] <= 16.0714285714286) {
                                                        if (input[1] <= 29.295952290302) {
                                                            return 0;
                                                        }
                                                        else if (input[1] > 29.295952290302) {
                                                            return 1;
                                                        }
                                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                                    }
                                                    else if (input[0] > 16.0714285714286) {
                                                        if (input[3] <= 10.0705025) {
                                                            return 1;
                                                        }
```

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```
                                        else if (input[3] > 10.0705025) {
                                            if (input[1] <= 39.3777347622727) {
                                                if (input[1] <= 36.8290995570607)
{
                                                    if (input[0] <=
31.7543103448276) {
                                                        return 0;
                                                    }
                                                    else if (input[0] >
31.7543103448276) {
                                                        if (input[0] <=
34.2583333333333) {
                                                            return 1;
                                                        }
                                                        else if (input[0] >
34.2583333333333) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else if (input[1] >
36.8290995570607) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[1] > 39.3777347622727)
{
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[1] > 120.656753454273) {
                                    return 1;
```

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```
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                                }
                                                else throw new ArgumentException("input", "Unexpected
value at position 3.");
                                            }
                                            else if (input[3] > 14.5878095) {
                                                if (input[2] <= 0.461678321678322) {
                                                    if (input[2] <= 0.400143472022956) {
                                                        if (input[0] <= 33.4101449275362) {
                                                            if (input[3] <= 20.8584825) {
                                                                return 0;
                                                            }
                                                            else if (input[3] > 20.8584825) {
                                                                return 1;
                                                            }
                                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                                        }
                                                        else if (input[0] > 33.4101449275362) {
                                                            return 1;
                                                        }
                                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                                    }
                                                    else if (input[2] > 0.400143472022956) {
                                                        return 1;
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                                }
                                                else if (input[2] > 0.461678321678322) {
                                                    if (input[0] <= 37.51) {
                                                        return 0;
                                                    }
                                                    else if (input[0] > 37.51) {
                                                        if (input[0] <= 37.6414285714286) {
                                                            return 1;
                                                        }
                                                        else if (input[0] > 37.6414285714286) {
                                                            return 0;
                                                        }
                                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                                    }
```

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```
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                    else throw new ArgumentException("input", "Unexpected
value at position 2.");
                }
            else throw new ArgumentException("input", "Unexpected
value at position 3.");
        }
    else throw new ArgumentException("input", "Unexpected value
at position 0.");
}
else if (input[0] > 38.5442307692308) {
    if (input[0] <= 209.480769230769) {
        if (input[2] <= 0.473782403770621) {
            if (input[0] <= 69.3266666666667) {
                if (input[3] <= 10.1897995) {
                    return 0;
                }
                else if (input[3] > 10.1897995) {
                    if (input[0] <= 44.9432367149758) {
                        return 1;
                    }
                    else if (input[0] > 44.9432367149758) {
                        if (input[1] <= 32.5277617713307) {
                            return 0;
                        }
                        else if (input[1] > 32.5277617713307) {
                            if (input[0] <= 48.6421463152232) {
                                return 0;
                            }
                            else if (input[0] > 48.6421463152232)
{
                                if (input[2] <=
0.454760878931495) {

                                    return 1;
                                }
                                else if (input[2] >
0.454760878931495) {
                                    if (input[1] <=
43.3204845642128) {

                                        return 1;
                                    }
                                    else if (input[1] >
43.3204845642128) {

                                        return 0;
```

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```
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                }
                else throw new ArgumentException("input",
"Unexpected value at position 3.");
        }
        else if (input[0] > 69.3266666666667) {
            if (input[3] <= 3.7680455) {
                return 1;
            }
            else if (input[3] > 3.7680455) {
                if (input[1] <= 80.7362445169678) {
                    if (input[1] <= 69.2556361485783) {
                        if (input[2] <= 0.36368819322069) {
                            if (input[0] <= 83.7386363636364)
{
                                return 1;
                            }
                            else if (input[0] >
83.7386363636364) {
                                return 0;
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                        }
                        else if (input[2] > 0.36368819322069)
{
                            return 0;
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 2.");
                    }
                    else if (input[1] > 69.2556361485783) {
```

```
                                               if (input[1] <= 70.6230796470505) {
                                                   return 1;
                                               }
                                               else if (input[1] > 70.6230796470505)

{

{

84.7888888888889) {
                                                       if (input[0] <=

                                                           return 0;
                                                       }
                                                       else if (input[0] >

84.7888888888889) {
                                                           if (input[3] <=

21.474923) {
                                                               return 1;
                                                           }
                                                           else if (input[3] >

21.474923) {
                                                               return 0;
                                                           }
                                                           else throw new

ArgumentException("input", "Unexpected value at position 3.");
                                                       }
                                                       else throw new

ArgumentException("input", "Unexpected value at position 0.");
                                                   }
                                                   else if (input[1] >

80.4956272702434) {
                                                       return 1;
                                                   }
                                                   else throw new

ArgumentException("input", "Unexpected value at position 1.");
                                               }
                                               else throw new

ArgumentException("input", "Unexpected value at position 1.");
                                           }
                                           else throw new ArgumentException("input",

"Unexpected value at position 1.");
                                       }
                                       else if (input[1] > 80.7362445169678) {
                                           if (input[0] <= 168.160256410256) {
                                               if (input[3] <= 7.8219255) {
                                                   if (input[3] <= 7.709973) {
                                                       return 0;
                                                   }
```

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```
                                            else if (input[3] > 7.709973) {
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                    else if (input[3] > 7.8219255) {
                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
                            else if (input[0] > 168.160256410256) {
                                if (input[0] <= 168.240384615385) {
                                    return 1;
                                }
                                else if (input[0] > 168.240384615385)
{
                                    if (input[0] <= 197.033333333333)
{
                                        return 0;
                                    }
                                    else if (input[0] >
197.033333333333) {
                                        if (input[0] <=
198.160256410256) {
                                            return 1;
                                        }
                                        else if (input[0] >
198.160256410256) {
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                            }
                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                    }
                else throw new ArgumentException("input",
"Unexpected value at position 1.");
```

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```
                                                            }
                                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                                        }
                                                        else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                                    }
                                                    else if (input[2] > 0.473782403770621) {
                                                        if (input[0] <= 177.261111111111) {
                                                            if (input[3] <= 19.977982) {
                                                                if (input[1] <= 241.702024933011) {
                                                                    if (input[1] <= 48.6455303773567) {
                                                                        if (input[0] <= 57.0208333333333) {
                                                                            if (input[1] <= 47.1386161403066)
{
                                                                                return 0;
                                                                            }
                                                                            else if (input[1] >
47.1386161403066) {
                                                                                if (input[1] <=
47.3625811888251) {
                                                                                    return 1;
                                                                                }
                                                                                else if (input[1] >
47.3625811888251) {
                                                                                    return 0;
                                                                                }
                                                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                            }
                                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                        }
                                                                        else if (input[0] > 57.0208333333333)
{
                                                                            if (input[0] <= 57.5227272727273)
{
                                                                                return 1;
                                                                            }
                                                                            else if (input[0] >
57.5227272727273) {
                                                                                if (input[1] <=
44.5976772166302) {
                                                                                    if (input[0] <=
72.0096153846154) {
                                                                                        return 0;
```

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```
                                                            }
                                                            else if (input[0] >
72.0096153846154) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[1] >
44.5976772166302) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                        else if (input[1] > 48.6455303773567) {
                                            if (input[3] <= 0.9828365) {
                                                if (input[3] <= 0.98148) {
                                                    if (input[1] <=
208.306409851913) {
                                                        return 0;
                                                    }
                                                    else if (input[1] >
208.306409851913) {
                                                        if (input[1] <=
212.414713726256) {
                                                            return 0;
                                                        }
                                                        else if (input[1] >
212.414713726256) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[3] > 0.98148) {
                                                    return 1;
```

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```
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                                }
                                                                else if (input[3] > 0.9828365) {
                                                                    if (input[2] <=
0.500656167979003) {
                                                                        if (input[3] <= 2.4386765) {
                                                                            return 0;
                                                                        }
                                                                        else if (input[3] >
2.4386765) {
                                                                            if (input[3] <=
2.4520555) {
                                                                                return 1;
                                                                            }
                                                                            else if (input[3] >
2.4520555) {
                                                                                return 0;
                                                                            }
                                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                                        }
                                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                                    }
                                                                    else if (input[2] >
0.500656167979003) {
                                                                        return 0;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                            }
                                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                                        }
                                                        else if (input[1] > 241.702024933011) {
                                                            if (input[1] <= 241.851802824656) {
                                                                return 1;
                                                            }
                                                            else if (input[1] > 241.851802824656) {
                                                                if (input[0] <= 89.225) {
                                                                    return 0;
```

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```
                                                }
                                                else if (input[0] > 89.225) {
                                                    if (input[0] <= 100.508620689655)
{
                                                        return 1;
                                                    }
                                                    else if (input[0] >
100.508620689655) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else if (input[3] > 19.977982) {
                                        if (input[3] <= 21.549895) {
                                            if (input[1] <= 76.5327891317347) {
                                                if (input[0] <= 70.6770833333333) {
                                                    return 0;
                                                }
                                                else if (input[0] > 70.6770833333333)
{
                                                    if (input[3] <= 20.8246955) {
                                                        if (input[0] <=
89.2533783783784) {
                                                            return 0;
                                                        }
                                                        else if (input[0] >
89.2533783783784) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[3] > 20.8246955) {
                                                        if (input[2] <=
0.500656167979003) {
                                                            return 1;
```

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```
                                                                    }
                                                                    else if (input[2] >
0.500656167979003) {
                                                                        if (input[0] <=
102.902777777778) {

                                                                            return 1;
                                                                        }
                                                                        else if (input[0] >
102.902777777778) {

                                                                            return 0;
                                                                        }
                                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[1] > 76.5327891317347) {
                                                            if (input[3] <= 20.546211) {
                                                                if (input[3] <= 20.467387) {
                                                                    return 0;
                                                                }
                                                                else if (input[3] > 20.467387) {
                                                                    return 1;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                            }
                                                            else if (input[3] > 20.546211) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                        }
                                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                                    }
                                                    else if (input[3] > 21.549895) {
                                                        if (input[0] <= 43.8944444444444) {
                                                            if (input[0] <= 43.2311111111111) {
```

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```
                                                        if (input[0] <= 39.4422222222222)
{
                                                            if (input[0] <=
39.390873015873) {
                                                                return 0;
                                                            }
                                                            else if (input[0] >
39.390873015873) {
                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[0] >
39.4422222222222) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[0] > 43.2311111111111)
{
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                            else if (input[0] > 43.8944444444444) {
                                                if (input[0] <= 167.219551282051) {
                                                    if (input[1] <= 99.0226935884297)
{
                                                        return 0;
                                                    }
                                                    else if (input[1] >
99.0226935884297) {
                                                        if (input[0] <=
52.1380952380952) {
                                                            return 1;
                                                        }
                                                        else if (input[0] >
52.1380952380952) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
```

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```
                                                       else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                       }
                                                   else if (input[0] > 167.219551282051)
{
                                                       if (input[0] <= 167.520833333333)
{
                                                           return 1;
                                                       }
                                                       else if (input[0] >
167.520833333333) {
                                                           return 0;
                                                       }
                                                       else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                       }
                                                   else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                               }
                                           else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                       }
                                   else throw new ArgumentException("input",
"Unexpected value at position 3.");
                               }
                           else throw new ArgumentException("input",
"Unexpected value at position 3.");
                       }
                   else if (input[0] > 177.261111111111) {
                       if (input[1] <= 128.354196956687) {
                           if (input[3] <= 21.474923) {
                               if (input[0] <= 187.130555555556) {
                                   return 0;
                               }
                               else if (input[0] > 187.130555555556) {
                                   return 1;
                               }
                               else throw new ArgumentException("input",
"Unexpected value at position 0.");
                           }
                           else if (input[3] > 21.474923) {
                               if (input[1] <= 22.2337777059201) {
                                   return 1;
                               }
                               else if (input[1] > 22.2337777059201) {
                                   return 0;
```

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```
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                }
                else if (input[1] > 128.354196956687) {
                    return 0;
                }
                else throw new ArgumentException("input",
"Unexpected value at position 1.");
            }
            else throw new ArgumentException("input", "Unexpected
value at position 0.");
        }
        else throw new ArgumentException("input", "Unexpected
value at position 2.");
    }
    else if (input[0] > 209.480769230769) {
        if (input[0] <= 209.761363636364) {
            return 1;
        }
        else if (input[0] > 209.761363636364) {
            if (input[1] <= 63.5585603766327) {
                if (input[0] <= 220.154761904762) {
                    return 1;
                }
                else if (input[0] > 220.154761904762) {
                    if (input[0] <= 272.45) {
                        return 0;
                    }
                    else if (input[0] > 272.45) {
                        if (input[0] <= 322.275) {
                            return 1;
                        }
                        else if (input[0] > 322.275) {
                            return 0;
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                }
```

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```
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                    }
                    else if (input[1] > 63.5585603766327) {
                        if (input[2] <= 0.428644426600482) {
                            if (input[1] <= 167.500743445927) {
                                return 0;
                            }
                            else if (input[1] > 167.500743445927) {
                                if (input[1] <= 198.570876224571) {
                                    if (input[0] <= 219.041666666667) {
                                        return 0;
                                    }
                                    else if (input[0] > 219.041666666667)
{

                                        return 1;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else if (input[1] > 198.570876224571) {
                                    return 0;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                        }
                        else if (input[2] > 0.428644426600482) {
                            if (input[0] <= 225.408333333333) {
                                if (input[0] <= 225.3875) {
                                    if (input[2] <= 0.46677181913775) {
                                        if (input[0] <= 218.069047619048)
{

                                            return 1;
                                        }
                                        else if (input[0] >
218.069047619048) {

                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else if (input[2] > 0.46677181913775)
{
```

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```
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                    }
                                    else if (input[0] > 225.3875) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[0] > 225.408333333333) {
                                    return 0;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 2.");
                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 1.");
                    }
                    else throw new ArgumentException("input", "Unexpected
value at position 0.");
                }
                else throw new ArgumentException("input", "Unexpected value
at position 0.");
            }
            else throw new ArgumentException("input", "Unexpected value at
position 0.");
        }
        else throw new ArgumentException("input", "Unexpected value at
position 2.");
    }
    else if (input[3] > 57.12228) {
        if (input[0] <= 49.8836336336336) {
            if (input[2] <= 0.40262613492702) {
                return 1;
            }
            else if (input[2] > 0.40262613492702) {
                return 0;
            }
            else throw new ArgumentException("input", "Unexpected value at
position 2.");
        }
```

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```
else if (input[0] > 49.8836336336336) {
    if (input[2] <= 0.33899868522343) {
        if (input[0] <= 62.8087923728814) {
            return 1;
        }
        else if (input[0] > 62.8087923728814) {
            return 0;
        }
        else throw new ArgumentException("input", "Unexpected value
at position 0.");
    }
    else if (input[2] > 0.33899868522343) {
        return 0;
    }
    else throw new ArgumentException("input", "Unexpected value at
position 2.");
}
else throw new ArgumentException("input", "Unexpected value at
position 0.");
    }
    else throw new ArgumentException("input", "Unexpected value at position
3.");
}
else if (input[2] > 0.566681894320085) {
    if (input[0] <= 41.9821428571429) {
        if (input[1] <= 31.8419838515726) {
            if (input[0] <= 23.9869281045752) {
                if (input[3] <= 8.999743) {
                    if (input[0] <= 0.0625) {
                        if (input[1] <= 26.5819596876837) {
                            if (input[1] <= 23.2755924191836) {
                                return 0;
                            }
                            else if (input[1] > 23.2755924191836) {
                                if (input[1] <= 23.3136038689495) {
                                    return 1;
                                }
                                else if (input[1] > 23.3136038689495) {
                                    return 0;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                        }
```

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```
else if (input[1] > 26.5819596876837) {
    if (input[3] <= 4.691205) {
        if (input[1] <= 29.5886035828607) {
            if (input[1] <= 29.5788508843064) {
                return 0;
            }
            else if (input[1] > 29.5788508843064) {
                return 1;
            }
            else throw new ArgumentException("input",
"Unexpected value at position 1.");
        }
        else if (input[1] > 29.5886035828607) {
            return 0;
        }
        else throw new ArgumentException("input",
"Unexpected value at position 1.");
    }
    else if (input[3] > 4.691205) {
        if (input[3] <= 7.216414) {
            if (input[2] <= 0.750067312870221) {
                return 0;
            }
            else if (input[2] > 0.750067312870221) {
                if (input[3] <= 5.6566775) {
                    if (input[3] <= 5.035076) {
                        if (input[1] <=
28.9517683544111) {

                            return 1;
                        }
                        else if (input[1] >
28.9517683544111) {

                            return 0;
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                    }
                    else if (input[3] > 5.035076) {
                        return 0;
                    }
                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                }
                else if (input[3] > 5.6566775) {
                    return 1;
                }
```

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```
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
            }
            else if (input[3] > 7.216414) {
                if (input[1] <= 30.1549734065166) {
                    return 0;
                }
                else if (input[1] > 30.1549734065166) {
                    if (input[1] <= 30.20045530216) {
                        return 1;
                    }
                    else if (input[1] > 30.20045530216) {
                        if (input[1] <= 31.4984558740635)
{
                            return 0;
                        }
                        else if (input[1] >
31.4984558740635) {
                            if (input[1] <=
31.7609312595291) {
                                return 1;
                            }
                            else if (input[1] >
31.7609312595291) {
                                return 0;
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                    }
                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                }
                else throw new ArgumentException("input",
"Unexpected value at position 1.");
            }
            else throw new ArgumentException("input",
"Unexpected value at position 3.");
        }
        else throw new ArgumentException("input",
"Unexpected value at position 3.");
```

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```
                                                        }
                                                        else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                                }
                                                else if (input[0] > 0.0625) {
                                                    if (input[2] <= 0.750067312870221) {
                                                        return 0;
                                                    }
                                                    else if (input[2] > 0.750067312870221) {
                                                        return 1;
                                                    }
                                                    else throw new ArgumentException("input", "Unexpected
value at position 2.");
                                                }
                                                else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                        }
                                        else if (input[3] > 8.999743) {
                                            if (input[2] <= 0.835728143567358) {
                                                if (input[3] <= 24.812451) {
                                                    if (input[3] <= 14.186381) {
                                                        return 0;
                                                    }
                                                    else if (input[3] > 14.186381) {
                                                        if (input[3] <= 15.247504) {
                                                            if (input[0] <= 0.0625) {
                                                                return 1;
                                                            }
                                                            else if (input[0] > 0.0625) {
                                                                return 0;
                                                            }
                                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                                        }
                                                        else if (input[3] > 15.247504) {
                                                            if (input[0] <= 0.409937888198758) {
                                                                if (input[0] <= 0.0625) {
                                                                    return 0;
                                                                }
                                                                else if (input[0] > 0.0625) {
                                                                    return 1;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
                                                            else if (input[0] > 0.409937888198758) {
```

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```
                            return 0;
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                }
                else throw new ArgumentException("input",
"Unexpected value at position 3.");
            }
            else if (input[3] > 24.812451) {
                if (input[0] <= 2.99780701754386) {
                    return 1;
                }
                else if (input[0] > 2.99780701754386) {
                    return 0;
                }
                else throw new ArgumentException("input",
"Unexpected value at position 0.");
            }
            else throw new ArgumentException("input", "Unexpected
value at position 3.");
        }
        else if (input[2] > 0.835728143567358) {
            if (input[1] <= 25.7754162386436) {
                if (input[3] <= 12.562134) {
                    if (input[1] <= 19.797469285343) {
                        return 0;
                    }
                    else if (input[1] > 19.797469285343) {
                        if (input[1] <= 20.7848155336172) {
                            return 1;
                        }
                        else if (input[1] > 20.7848155336172) {
                            return 0;
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                }
                else if (input[3] > 12.562134) {
                    if (input[3] <= 15.0738645) {
                        if (input[1] <= 18.6166551958912) {
```

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```
                                        return 0;
                                    }
                                    else if (input[1] > 18.6166551958912) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                                else if (input[3] > 15.0738645) {
                                    return 1;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                        }
                        else if (input[1] > 25.7754162386436) {
                            return 1;
                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 1.");
                    }
                    else throw new ArgumentException("input", "Unexpected
value at position 2.");
                }
                else throw new ArgumentException("input", "Unexpected value
at position 3.");
            }
            else if (input[0] > 23.9869281045752) {
                if (input[2] <= 0.650038580246914) {
                    if (input[3] <= 52.6159265) {
                        if (input[1] <= 31.7974865665172) {
                            if (input[1] <= 17.2939168111748) {
                                if (input[0] <= 28.3666666666667) {
                                    return 0;
                                }
                                else if (input[0] > 28.3666666666667) {
                                    return 1;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                            else if (input[1] > 17.2939168111748) {
                                return 0;
                            }
```

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```
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                }
            else if (input[1] > 31.7974865665172) {
                return 1;
            }
            else throw new ArgumentException("input", "Unexpected
value at position 1.");
        }
        else if (input[3] > 52.6159265) {
            return 1;
        }
        else throw new ArgumentException("input", "Unexpected
value at position 3.");
    }
    else if (input[2] > 0.650038580246914) {
        if (input[0] <= 38.0178571428571) {
            if (input[2] <= 0.71468089310413) {
                if (input[2] <= 0.696040372670807) {
                    if (input[3] <= 14.078428) {
                        if (input[0] <= 31.672619047619) {
                            return 0;
                        }
                        else if (input[0] > 31.672619047619) {
                            return 1;
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                    }
                    else if (input[3] > 14.078428) {
                        return 1;
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                }
                else if (input[2] > 0.696040372670807) {
                    if (input[0] <= 30.8166666666667) {
                        return 0;
                    }
                    else if (input[0] > 30.8166666666667) {
                        return 1;
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                }
```

```
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                                else if (input[2] > 0.71468089310413) {
                                    if (input[3] <= 6.751126) {
                                        if (input[1] <= 18.6144505557252) {
                                            if (input[1] <= 18.6040790831144) {
                                                if (input[1] <= 18.5080892172353) {
                                                    if (input[1] <= 18.4799744624444)
{
                                                        return 1;
                                                    }
                                                    else if (input[1] >
18.4799744624444) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[1] > 18.5080892172353)
{
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[1] > 18.6040790831144) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else if (input[1] > 18.6144505557252) {
                                            if (input[3] <= 6.1099985) {
                                                return 1;
                                            }
                                            else if (input[3] > 6.1099985) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else if (input[3] > 6.751126) {
```

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```
                                    return 1;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 2.");
                        }
                        else if (input[0] > 38.0178571428571) {
                            if (input[0] <= 38.8659994516041) {
                                return 0;
                            }
                            else if (input[0] > 38.8659994516041) {
                                if (input[3] <= 13.1559095) {
                                    return 0;
                                }
                                else if (input[3] > 13.1559095) {
                                    if (input[2] <= 0.69259191887037) {
                                        if (input[0] <= 40.7403846153846) {
                                            return 1;
                                        }
                                        else if (input[0] > 40.7403846153846) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else if (input[2] > 0.69259191887037) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 0.");
                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 0.");
                    }
                    else throw new ArgumentException("input", "Unexpected value
at position 2.");
                }
```

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```
                                else throw new ArgumentException("input", "Unexpected value at
position 0.");
                    }
                    else if (input[1] > 31.8419838515726) {
                        if (input[3] <= 8.0020785) {
                            if (input[2] <= 0.636413862380713) {
                                if (input[2] <= 0.571477637938225) {
                                    if (input[1] <= 59.8813879093923) {
                                        if (input[1] <= 57.7054300300855) {
                                            if (input[1] <= 48.3793372145327) {
                                                if (input[1] <= 45.4243170237709) {
                                                    return 0;
                                                }
                                                else if (input[1] > 45.4243170237709) {
                                                    return 1;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                            }
                                            else if (input[1] > 48.3793372145327) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else if (input[1] > 57.7054300300855) {
                                            return 1;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else if (input[1] > 59.8813879093923) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                }
                                else if (input[2] > 0.571477637938225) {
                                    return 0;
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 2.");
                            }
                            else if (input[2] > 0.636413862380713) {
                                if (input[3] <= 0.986115) {
                                    if (input[2] <= 0.750067312870221) {
```

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```
if (input[0] <= 29.0166666666667) {
    if (input[1] <= 130.707300562334) {
        if (input[1] <= 130.576650990983) {
            return 0;
        }
        else if (input[1] > 130.576650990983) {
            return 1;
        }
        else throw new ArgumentException("input",
"Unexpected value at position 1.");
    }
    else if (input[1] > 130.707300562334) {
        if (input[3] <= 0.496098) {
            if (input[1] <= 241.918923982279) {
                return 1;
            }
            else if (input[1] > 241.918923982279)
{
                return 0;
            }
            else throw new
ArgumentException("input", "Unexpected value at position 1.");
        }
        else if (input[3] > 0.496098) {
            if (input[1] <= 225.216599846925) {
                return 0;
            }
            else if (input[1] > 225.216599846925)
{
                if (input[1] <= 225.512595354073)
{
                    return 1;
                }
                else if (input[1] >
225.512595354073) {
                    return 0;
                }
                else throw new
ArgumentException("input", "Unexpected value at position 1.");
            }
            else throw new
ArgumentException("input", "Unexpected value at position 1.");
        }
        else throw new ArgumentException("input",
"Unexpected value at position 3.");
    }
```

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```
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else if (input[0] > 29.0166666666667) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[2] > 0.750067312870221) {
                                    if (input[1] <= 102.414956006251) {
                                        if (input[0] <= 0.0625) {
                                            if (input[3] <= 0.8281245) {
                                                return 0;
                                            }
                                            else if (input[3] > 0.8281245) {
                                                if (input[1] <= 93.2162714672715) {
                                                    return 0;
                                                }
                                                else if (input[1] > 93.2162714672715)
{
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                        }
                                        else if (input[0] > 0.0625) {
                                            return 1;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else if (input[1] > 102.414956006251) {
                                        if (input[3] <= 0.4531915) {
                                            if (input[1] <= 189.675096301942) {
                                                return 0;
                                            }
                                            else if (input[1] > 189.675096301942) {
                                                if (input[3] <= 0.3586985) {
                                                    return 0;
                                                }
                                                else if (input[3] > 0.3586985) {
                                                    return 1;
```

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```
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else if (input[3] > 0.4531915) {
                                if (input[3] <= 0.5158045) {
                                    if (input[1] <= 158.418673989474) {
                                        return 0;
                                    }
                                    else if (input[1] > 158.418673989474)
{
                                        return 1;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                }
                                else if (input[3] > 0.5158045) {
                                    if (input[1] <= 119.090877952635) {
                                        if (input[3] <= 0.7341645) {
                                            return 0;
                                        }
                                        else if (input[3] > 0.7341645) {
                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else if (input[1] > 119.090877952635)
{
                                        return 1;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                    }
```

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```
                                    else throw new ArgumentException("input", "Unexpected
value at position 2.");
                                }
                                else if (input[3] > 0.986115) {
                                    if (input[1] <= 63.6919370999582) {
                                        if (input[3] <= 5.8743625) {
                                            if (input[0] <= 0.0625) {
                                                if (input[1] <= 43.7269603893736) {
                                                    if (input[2] <= 0.666854143232096) {
                                                        if (input[1] <= 32.5225062668388)
{

                                                            return 1;
                                                        }
                                                        else if (input[1] >
32.5225062668388) {

                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[2] >
0.666854143232096) {

{

                                                        if (input[1] <= 32.2023643087711)

                                                            if (input[1] <=
32.0547627128037) {

                                                                if (input[3] <=
2.5115455) {

                                                                    return 0;
                                                                }
                                                                else if (input[3] >
2.5115455) {

                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                            }
                                                            else if (input[1] >
32.0547627128037) {

                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else if (input[1] >
32.2023643087711) {
```

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```
                                                            return 0;
                                                        }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
                                    else if (input[1] > 43.7269603893736) {
                                        if (input[3] <= 2.9733605) {
                                            return 0;
                                        }
                                        else if (input[3] > 2.9733605) {
                                            if (input[2] <=
0.800172117039587) {
                                                    if (input[1] <=
43.7337521819226) {
                                                        return 1;
                                                    }
                                                else if (input[1] >
43.7337521819226) {
                                                        if (input[2] <=
0.666854143232096) {
                                                            return 0;
                                                        }
                                                    else if (input[2] >
0.666854143232096) {
                                                            return 0;
                                                        }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[2] >
0.800172117039587) {
                                                if (input[1] <=
47.0423508850079) {
                                                    if (input[3] <=
3.6092965) {
                                                        return 0;
                                                    }
                                                    else if (input[3] >
3.6092965) {
                                                        return 1;
```

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```
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else if (input[1] >
47.0423508850079) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else if (input[0] > 0.0625) {
                                if (input[2] <= 0.750067312870221) {
                                    if (input[1] <= 41.0566483745836) {
                                        return 1;
                                    }
                                    else if (input[1] > 41.0566483745836)
{
                                        if (input[3] <= 3.2635545) {
                                            if (input[0] <=
25.4352941176471) {
                                                return 0;
                                            }
                                            else if (input[0] >
25.4352941176471) {
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else if (input[3] > 3.2635545) {
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
```

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```
                                                  else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[2] > 0.750067312870221) {
                                                if (input[1] <= 62.8433635878055) {
                                                    if (input[0] <= 33.515625) {
                                                        return 1;
                                                    }
                                                    else if (input[0] > 33.515625) {
                                                        if (input[3] <= 2.653557) {
                                                            return 0;
                                                        }
                                                        else if (input[3] > 2.653557)
{

                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else if (input[1] > 62.8433635878055)
{

                                                    if (input[0] <= 35.0145631067961)
{

                                                        return 0;
                                                    }
                                                    else if (input[0] >
35.0145631067961) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else if (input[3] > 5.8743625) {
                                        if (input[1] <= 32.5042689061043) {
```

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```
                                     if (input[2] <= 0.800172117039587) {
                                         return 0;
                                     }
                                     else if (input[2] > 0.800172117039587) {
                                         return 1;
                                     }
                                     else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                 }
                                 else if (input[1] > 32.5042689061043) {
                                     if (input[3] <= 7.884959) {
                                         if (input[0] <= 17.4142857142857) {
                                             if (input[1] <= 42.7563405968581)
{
                                                 if (input[1] <=
32.643532107588) {
                                                     if (input[1] <=
32.5045220359488) {
                                                         return 0;
                                                     }
                                                     else if (input[1] >
32.5045220359488) {
                                                         return 1;
                                                     }
                                                     else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                 }
                                                 else if (input[1] >
32.643532107588) {
                                                     if (input[3] <= 6.20899)
{
                                                         return 0;
                                                     }
                                                     else if (input[3] >
6.20899) {
                                                         return 0;
                                                     }
                                                     else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                 }
                                                 else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                             }
                                             else if (input[1] >
42.7563405968581) {
                                                 if (input[0] <= 0.0625) {
```

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```
                                                    return 1;
                                                }
                                                else if (input[0] > 0.0625) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else if (input[0] > 17.4142857142857)
{
                                        if (input[0] <= 37.0178571428571)
{
                                            if (input[1] <=
52.7334843409566) {
                                                return 1;
                                            }
                                            else if (input[1] >
52.7334843409566) {
                                                if (input[0] <=
28.015625) {
                                                    return 0;
                                                }
                                                else if (input[0] >
28.015625) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[0] >
37.0178571428571) {
                                            if (input[0] <=
39.0106783919598) {
                                                return 0;
                                            }
                                            else if (input[0] >
39.0106783919598) {
                                                return 1;
                                            }
```

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```
                                                      else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else if (input[3] > 7.884959) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                            }
                            else if (input[1] > 63.6919370999582) {
                                if (input[1] <= 64.0063793024776) {
                                    if (input[2] <= 0.800172117039587) {
                                        if (input[3] <= 3.5683485) {
                                            return 0;
                                        }
                                        else if (input[3] > 3.5683485) {
                                            if (input[3] <= 7.2559635) {
                                                return 1;
                                            }
                                            else if (input[3] > 7.2559635) {
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                    else if (input[2] > 0.800172117039587) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
```

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```
                                else if (input[1] > 64.0063793024776) {
                                    if (input[1] <= 120.26193476403) {
                                        if (input[3] <= 2.001747) {
                                            if (input[0] <= 23.6794871794872) {
                                                if (input[2] <=
0.750067312870221) {

                                                    return 0;
                                                }
                                                else if (input[2] >
0.750067312870221) {

                                                    if (input[0] <= 0.0625) {
                                                        if (input[3] <=
1.2838235) {

                                                            return 0;
                                                        }
                                                        else if (input[3] >
1.2838235) {

                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                    }
                                                    else if (input[0] > 0.0625) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");

                                            }
                                            else if (input[0] > 23.6794871794872)
{

                                                if (input[3] <= 1.8274355) {
                                                    return 1;
                                                }
                                                else if (input[3] > 1.8274355) {
                                                    if (input[0] <=
29.0166666666667) {

                                                        return 0;
                                                    }
                                                    else if (input[0] >
29.0166666666667) {

                                                        return 1;
                                                    }
```

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```
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[3] > 2.001747) {
                                                if (input[2] <= 0.800172117039587) {
                                                    if (input[3] <= 3.7030755) {
                                                        if (input[0] <=
19.7740890688259) {
                                                            if (input[1] <=
107.769523911528) {
                                                                return 0;
                                                            }
                                                            else if (input[1] >
107.769523911528) {
                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else if (input[0] >
19.7740890688259) {
                                                            if (input[2] <=
0.750067312870221) {
                                                                return 1;
                                                            }
                                                            else if (input[2] >
0.750067312870221) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[3] > 3.7030755) {
                                                        if (input[3] <= 6.288925) {
                                                            if (input[1] <=
64.0189352177566) {
                                                                return 0;
```

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```
                }
                else if (input[1] >
64.0189352177566) {
                    return 1;
                }
                else throw new
ArgumentException("input", "Unexpected value at position 1.");
            }
            else if (input[3] > 6.288925)
{
                if (input[0] <=
1.26785714285714) {
                    return 1;
                }
                else if (input[0] >
1.26785714285714) {
                    return 0;
                }
                else throw new
ArgumentException("input", "Unexpected value at position 0.");
            }
            else throw new
ArgumentException("input", "Unexpected value at position 3.");
        }
        else throw new
ArgumentException("input", "Unexpected value at position 3.");
    }
    else if (input[2] >
0.800172117039587) {
        if (input[3] <= 4.0261945) {
            if (input[3] <= 2.0724905) {
                if (input[0] <= 0.0625) {
                    return 0;
                }
                else if (input[0] >
0.0625) {
                    return 1;
                }
                else throw new
ArgumentException("input", "Unexpected value at position 0.");
            }
            else if (input[3] >
2.0724905) {
                return 1;
            }
```

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```
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                        }
                                                        else if (input[3] > 4.0261945) {
                                                            if (input[1] <=
112.383003093124) {

                                                                return 1;
                                                            }
                                                            else if (input[1] >
112.383003093124) {

                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                    }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                }
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                    else if (input[1] > 120.26193476403) {
                                        if (input[2] <= 0.737136136430462) {
                                            if (input[3] <= 1.026747) {
                                                return 0;
                                            }
                                            else if (input[3] > 1.026747) {
                                                if (input[0] <=
0.409937888198758) {

                                                    if (input[3] <= 1.6205365) {
                                                        if (input[1] <=
220.986585797622) {

                                                            return 0;
                                                        }
                                                        else if (input[1] >
220.986585797622) {

                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[3] >
1.6205365) {
```

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```
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else if (input[0] >
0.409937888198758) {
                                                    if (input[1] <=
138.371789259584) {
                                                        if (input[0] <=
23.6794871794872) {
                                                            return 0;
                                                        }
                                                        else if (input[0] >
23.6794871794872) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[1] >
138.371789259584) {
                                                        if (input[1] <=
241.973694020088) {
                                                            return 1;
                                                        }
                                                        else if (input[1] >
241.973694020088) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else if (input[2] > 0.737136136430462) {
                                            if (input[3] <= 1.8509085) {
                                                if (input[2] <=
0.750067312870221) {
```

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```
                                        if (input[1] <=
195.101354396856) {
                                            if (input[3] <=
1.2007805) {
                                                return 0;
                                            }
                                            else if (input[3] >
1.2007805) {
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else if (input[1] >
195.101354396856) {
                                            if (input[0] <= 0.0625) {
                                                return 1;
                                            }
                                            else if (input[0] >
0.0625) {
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else if (input[2] >
0.750067312870221) {
                                        if (input[0] <=
37.0178571428571) {
                                            return 1;
                                        }
                                        else if (input[0] >
37.0178571428571) {
                                            if (input[1] <=
132.032638820798) {
                                                return 0;
                                            }
                                            else if (input[1] >
132.032638820798) {
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
```

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```
                    }
                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                }
                else throw new
ArgumentException("input", "Unexpected value at position 2.");
            }
            else if (input[3] > 1.8509085) {
                if (input[3] <= 6.786829) {
                    if (input[0] <=
35.6035714285714) {
                        if (input[0] <=
1.46428571428571) {
                            return 1;
                        }
                        else if (input[0] >
1.46428571428571) {
                            return 1;
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                    }
                    else if (input[0] >
35.6035714285714) {
                        return 1;
                    }
                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                }
                else if (input[3] > 6.786829) {
                    return 0;
                }
                else throw new
ArgumentException("input", "Unexpected value at position 3.");
            }
            else throw new
ArgumentException("input", "Unexpected value at position 3.");
        }
        else throw new ArgumentException("input",
"Unexpected value at position 2.");
    }
    else throw new ArgumentException("input",
"Unexpected value at position 1.");
}
else throw new ArgumentException("input",
"Unexpected value at position 1.");
```

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```
                                                    }
                                            else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                    }
                            else throw new ArgumentException("input", "Unexpected
value at position 3.");
                            }
                    else throw new ArgumentException("input", "Unexpected value
at position 2.");
                    }
            else if (input[3] > 8.0020785) {
                if (input[2] <= 0.890227576974565) {
                    if (input[1] <= 114.018041810076) {
                        if (input[3] <= 8.1611175) {
                            return 1;
                        }
                        else if (input[3] > 8.1611175) {
                            if (input[3] <= 47.9963205) {
                                if (input[2] <= 0.700515463917526) {
                                    if (input[2] <= 0.673866392983766) {
                                        if (input[1] <= 67.1070892342252) {
                                            if (input[2] <=
0.636413862380713) {

                                                if (input[3] <= 45.7595485) {
                                                    if (input[1] <=
61.5341705197266) {

                                                        return 0;
                                                    }
                                                    else if (input[1] >
61.5341705197266) {

                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                }
                                                else if (input[3] >
45.7595485) {

                                                    if (input[0] <=
30.1222222222222) {

                                                        return 1;
                                                    }
                                                    else if (input[0] >
30.1222222222222) {

                                                        return 0;
                                                    }
```

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```
                                                           else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                       }
                                                   else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                           }
                                       else if (input[2] >
0.636413862380713) {
                                           if (input[0] <=
32.343137254902) {
                                               if (input[3] <= 9.892695)
{
                                                   return 1;
                                               }
                                               else if (input[3] >
9.892695) {
                                                   return 0;
                                               }
                                               else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                           }
                                           else if (input[0] >
32.343137254902) {
                                               return 1;
                                           }
                                           else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                       }
                                   else throw new
ArgumentException("input", "Unexpected value at position 2.");
                               }
                           else if (input[1] > 67.1070892342252)
{
                               if (input[0] <= 15.19375) {
                                   if (input[3] <= 9.5983405) {
                                       if (input[0] <=
3.59218106995885) {
                                           return 1;
                                       }
                                       else if (input[0] >
3.59218106995885) {
                                           return 0;
                                       }
                                       else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                   }
```

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```
                                                else if (input[3] >
9.5983405) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[0] > 15.19375) {
                                                if (input[3] <= 19.365224) {
                                                    return 0;
                                                }
                                                else if (input[3] >
19.365224) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else if (input[2] > 0.673866392983766) {
                                        if (input[0] <= 2.34848484848485) {
                                            return 1;
                                        }
                                        else if (input[0] > 2.34848484848485)
{
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                                else if (input[2] > 0.700515463917526) {
                                    if (input[2] <= 0.859340659340659) {
                                        if (input[0] <= 24.95) {
                                            if (input[0] <= 2.99780701754386)
{
                                                if (input[3] <= 8.550783) {
                                                    if (input[1] <=
36.9978648617603) {
```

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```
                                                        return 0;
                                                    }
                                                    else if (input[1] >
36.9978648617603) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[3] > 8.550783)
{
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[0] >
2.99780701754386) {
                                                if (input[1] <=
60.4901689293843) {
                                                    return 0;
                                                }
                                                else if (input[1] >
60.4901689293843) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else if (input[0] > 24.95) {
                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else if (input[2] > 0.859340659340659) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 2.");
```

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```
                                }
                                else if (input[3] > 47.9963205) {
                                    return 1;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 3.");
                        }
                        else if (input[1] > 114.018041810076) {
                            if (input[3] <= 8.5391115) {
                                if (input[0] <= 24.4259259259259) {
                                    return 1;
                                }
                                else if (input[0] > 24.4259259259259) {
                                    return 0;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                            else if (input[3] > 8.5391115) {
                                return 1;
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 3.");
                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 1.");
                    }
                    else if (input[2] > 0.890227576974565) {
                        if (input[1] <= 96.6023119672887) {
                            if (input[0] <= 39.0106783919598) {
                                return 1;
                            }
                            else if (input[0] > 39.0106783919598) {
                                if (input[1] <= 38.5235121878374) {
                                    return 0;
                                }
                                else if (input[1] > 38.5235121878374) {
                                    return 1;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
```

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```
                                            else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                        }
                                        else if (input[1] > 96.6023119672887) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                    }
                                    else throw new ArgumentException("input", "Unexpected value
at position 2.");
                                }
                                else throw new ArgumentException("input", "Unexpected value at
position 3.");
                            }
                            else throw new ArgumentException("input", "Unexpected value at
position 1.");
                        }
                        else if (input[0] > 41.9821428571429) {
                            if (input[2] <= 0.652245218104355) {
                                if (input[0] <= 71.7361111111111) {
                                    if (input[3] <= 11.9692245) {
                                        if (input[1] <= 79.6484553898333) {
                                            if (input[0] <= 44.8273809523809) {
                                                return 1;
                                            }
                                            else if (input[0] > 44.8273809523809) {
                                                if (input[0] <= 54.0151515151515) {
                                                    return 0;
                                                }
                                                else if (input[0] > 54.0151515151515) {
                                                    return 1;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                            }
                                            else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                        }
                                        else if (input[1] > 79.6484553898333) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                    }
                                    else if (input[3] > 11.9692245) {
```

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```
                            if (input[1] <= 109.173593317561) {
                                if (input[2] <= 0.600170068027211) {
                                    return 0;
                                }
                                else if (input[2] > 0.600170068027211) {
                                    if (input[3] <= 26.4377295) {
                                        return 0;
                                    }
                                    else if (input[3] > 26.4377295) {
                                        if (input[0] <= 46.7669683257919) {
                                            return 1;
                                        }
                                        else if (input[0] > 46.7669683257919) {
                                            if (input[3] <= 39.7855125) {
                                                return 0;
                                            }
                                            else if (input[3] > 39.7855125) {
                                                return 1;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 2.");
                            }
                            else if (input[1] > 109.173593317561) {
                                if (input[3] <= 13.25981) {
                                    return 1;
                                }
                                else if (input[3] > 13.25981) {
                                    if (input[2] <= 0.586252968499353) {
                                        return 0;
                                    }
                                    else if (input[2] > 0.586252968499353) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
```

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```
                                                else throw new ArgumentException("input", "Unexpected
value at position 3.");
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                }
                                else throw new ArgumentException("input", "Unexpected value
at position 3.");
                            }
                            else if (input[0] > 71.7361111111111) {
                                if (input[1] <= 36.7506028411119) {
                                    if (input[3] <= 56.503718) {
                                        if (input[1] <= 35.528943395449) {
                                            return 0;
                                        }
                                        else if (input[1] > 35.528943395449) {
                                            if (input[0] <= 77.9045454545455) {
                                                return 1;
                                            }
                                            else if (input[0] > 77.9045454545455) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                    }
                                    else if (input[3] > 56.503718) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 3.");
                                }
                                else if (input[1] > 36.7506028411119) {
                                    if (input[3] <= 20.3109585) {
                                        if (input[3] <= 3.3984895) {
                                            if (input[1] <= 173.616029828358) {
                                                return 1;
                                            }
                                            else if (input[1] > 173.616029828358) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
```

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```
                            else if (input[3] > 3.3984895) {
                                return 0;
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 3.");
                        }
                    else if (input[3] > 20.3109585) {
                        if (input[3] <= 20.546211) {
                            if (input[2] <= 0.583417678812416) {
                                return 1;
                            }
                            else if (input[2] > 0.583417678812416) {
                                return 0;
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 2.");
                        }
                        else if (input[3] > 20.546211) {
                            if (input[0] <= 473.908699397071) {
                                if (input[3] <= 21.0120925) {
                                    if (input[3] <= 20.8584825) {
                                        return 0;
                                    }
                                    else if (input[3] > 20.8584825) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                }
                                else if (input[3] > 21.0120925) {
                                    if (input[2] <= 0.63340874811463) {
                                        return 0;
                                    }
                                    else if (input[2] > 0.63340874811463) {
                                        if (input[1] <= 108.621287542217) {
                                            return 0;
                                        }
                                        else if (input[1] > 108.621287542217)
{
                                            if (input[1] <= 111.721727352927)
{
                                                return 1;
                                            }
                                            else if (input[1] >
111.721727352927) {
```

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```
                                                    if (input[2] <=
0.640143884892086) {
                                                        if (input[1] <=
119.673181077767) {
                                                            return 0;
                                                        }
                                                        else if (input[1] >
119.673181077767) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[2] >
0.640143884892086) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                }
                                else if (input[0] > 473.908699397071) {
                                    if (input[0] <= 481.104014939309) {
                                        return 1;
                                    }
                                    else if (input[0] > 481.104014939309) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
```

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```
                                            else throw new ArgumentException("input", "Unexpected
value at position 3.");
                                    }
                                else throw new ArgumentException("input", "Unexpected
value at position 3.");
                            }
                        else throw new ArgumentException("input", "Unexpected value
at position 1.");
                    }
                else throw new ArgumentException("input", "Unexpected value at
position 0.");
            }
        else if (input[2] > 0.652245218104355) {
            if (input[3] <= 1.4999915) {
                if (input[0] <= 54.0151515151515) {
                    if (input[2] <= 0.666854143232096) {
                        if (input[3] <= 1.1273595) {
                            return 1;
                        }
                        else if (input[3] > 1.1273595) {
                            if (input[0] <= 46.0138888888889) {
                                if (input[0] <= 44.0138888888889) {
                                    if (input[0] <= 43.0178571428571) {
                                        return 0;
                                    }
                                    else if (input[0] > 43.0178571428571) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[0] > 44.0138888888889) {
                                    return 0;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                            else if (input[0] > 46.0138888888889) {
                                if (input[0] <= 47.343137254902) {
                                    return 1;
                                }
                                else if (input[0] > 47.343137254902) {
                                    return 0;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
```

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```
                                                        }
                                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                                }
                                                else throw new ArgumentException("input", "Unexpected
value at position 3.");
                                        }
                                        else if (input[2] > 0.666854143232096) {
                                                if (input[3] <= 1.0051175) {
                                                        if (input[3] <= 0.9790925) {
                                                                return 0;
                                                        }
                                                        else if (input[3] > 0.9790925) {
                                                                if (input[0] <= 48.0041712005803) {
                                                                        return 0;
                                                                }
                                                                else if (input[0] > 48.0041712005803) {
                                                                        return 1;
                                                                }
                                                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                                        }
                                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                                }
                                                else if (input[3] > 1.0051175) {
                                                        return 0;
                                                }
                                                else throw new ArgumentException("input", "Unexpected
value at position 3.");
                                        }
                                        else throw new ArgumentException("input", "Unexpected
value at position 2.");
                                }
                                else if (input[0] > 54.0151515151515) {
                                        return 1;
                                }
                                else throw new ArgumentException("input", "Unexpected value
at position 0.");
                        }
                        else if (input[3] > 1.4999915) {
                                if (input[0] <= 201.015625) {
                                        if (input[1] <= 217.721997351843) {
                                                if (input[3] <= 29.795156) {
                                                        if (input[0] <= 54.0151515151515) {
                                                                if (input[0] <= 51.3466666666667) {
```

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```
                                                    if (input[3] <= 8.894178) {
                                                        if (input[1] <= 42.2296562282215) {
                                                            if (input[0] <= 46.0138888888889)
{
23.6729272046547) {
                                                                if (input[1] <=
                                                                    if (input[1] <=
23.3891461988809) {
                                                                        return 0;
                                                                    }
                                                                    else if (input[1] >
23.3891461988809) {
                                                                        return 1;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                }
                                                                else if (input[1] >
23.6729272046547) {
                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                            }
                                                            else if (input[0] >
46.0138888888889) {
                                                                if (input[3] <= 7.9523105) {
                                                                    if (input[1] <=
39.5258712922551) {
                                                                        return 1;
                                                                    }
                                                                    else if (input[1] >
39.5258712922551) {
                                                                        return 0;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                }
                                                                else if (input[3] >
7.9523105) {
                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                            }
```

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```
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else if (input[1] > 42.2296562282215)
{
                                                    if (input[3] <= 2.9720425) {
                                                        if (input[1] <=
101.795255582283) {
                                                            if (input[1] <=
52.6512646117619) {

                                                                return 1;
                                                            }
                                                            else if (input[1] >
52.6512646117619) {

                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else if (input[1] >
101.795255582283) {
                                                            if (input[2] <=
0.666854143232096) {

                                                                return 0;
                                                            }
                                                            else if (input[2] >
0.666854143232096) {

                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[3] > 2.9720425) {
                                                        if (input[0] <=
43.8366666666667) {
                                                            if (input[1] <=
158.700121765519) {

                                                                return 1;
                                                            }
                                                            else if (input[1] >
158.700121765519) {

                                                                return 0;
                                                            }
```

```
                                                         else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                         }
                                                         else if (input[0] >
43.8366666666667) {
                                                             if (input[0] <=
46.7003054989817) {
                                                                 return 0;
                                                             }
                                                             else if (input[0] >
46.7003054989817) {
                                                                 return 1;
                                                             }
                                                             else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                         }
                                                         else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                     }
                                                     else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                 }
                                                 else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                             }
                                             else if (input[3] > 8.894178) {
                                                 if (input[1] <= 24.0588033285914) {
                                                     if (input[3] <= 20.1577875) {
                                                         if (input[1] <=
16.8888838192647) {
                                                             return 1;
                                                         }
                                                         else if (input[1] >
16.8888838192647) {
                                                             if (input[1] <=
19.1085776807223) {
                                                                 return 0;
                                                             }
                                                             else if (input[1] >
19.1085776807223) {
                                                                 return 0;
                                                             }
                                                             else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                         }
```

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```
                                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                    }
                                                                    else if (input[3] > 20.1577875) {
                                                                        return 1;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                                }
                                                                else if (input[1] > 24.0588033285914)
{

                                                                    if (input[0] <= 48.8730769230769)
{

                                                                        if (input[0] <=
47.2106870229008) {

                                                                            if (input[0] <=
47.0217391304348) {

                                                                                return 1;
                                                                            }
                                                                            else if (input[0] >
47.0217391304348) {

                                                                                return 0;
                                                                            }
                                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                                                        }
                                                                        else if (input[0] >
47.2106870229008) {

                                                                            return 1;
                                                                        }
                                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                                                    }
                                                                    else if (input[0] >
48.8730769230769) {

                                                                        if (input[3] <= 9.3098085) {
                                                                            return 0;
                                                                        }
                                                                        else if (input[3] >
9.3098085) {

                                                                            if (input[1] <=
25.8162768176239) {

                                                                                return 0;
                                                                            }
                                                                            else if (input[1] >
25.8162768176239) {
```

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```
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                    }
                    else if (input[0] > 51.3466666666667) {
                        if (input[3] <= 16.0715755) {
                            if (input[0] <= 52.6754385964912) {
                                if (input[3] <= 3.626629) {
                                    if (input[1] <=
66.9583462572551) {

                                        return 0;
                                    }
                                    else if (input[1] >
66.9583462572551) {

                                        if (input[3] <=
1.8870175) {

                                            return 0;
                                        }
                                        else if (input[3] >
1.8870175) {

                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                }
                                else if (input[3] > 3.626629) {
                                    if (input[0] <=
51.5634920634921) {

                                        if (input[1] <=
60.6416952497243) {
```

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```
                                                        return 1;
                                                    }
                                                    else if (input[1] >
60.6416952497243) {

                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                }
                                                else if (input[0] >
51.5634920634921) {

                                                    if (input[1] <=
34.3079451995884) {

                                                        return 0;
                                                    }
                                                    else if (input[1] >
34.3079451995884) {

                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                        }
                                        else if (input[0] > 52.6754385964912)
{

                                            if (input[1] <= 54.8052086349797)
{

                                                if (input[1] <=
18.1985840939365) {

                                                    return 1;
                                                }
                                                else if (input[1] >
18.1985840939365) {

                                                    if (input[0] <=
53.0092592592593) {

                                                        return 0;
                                                    }
                                                    else if (input[0] >
53.0092592592593) {

                                                        return 0;
                                                    }
```

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```
                                                       else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[1] >
54.8052086349797) {

                                            if (input[3] <= 1.607731) {
                                                return 0;
                                            }
                                            else if (input[3] > 1.607731)
{

                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else if (input[3] > 16.0715755) {
                                    return 1;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                        else if (input[0] > 54.0151515151515) {
                            if (input[3] <= 6.232364) {
                                if (input[1] <= 136.553947484747) {
                                    if (input[3] <= 4.686557) {
                                        if (input[3] <= 4.6754175) {
                                            if (input[1] <=
90.7802979665891) {

                                                if (input[1] <=
78.702879593962) {

                                                    return 1;
                                                }
                                                else if (input[1] >
78.702879593962) {
```

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```
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[1] >
90.7802979665891) {

                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[3] > 4.6754175) {
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else if (input[3] > 4.686557) {
                                        return 1;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
                            else if (input[1] > 136.553947484747) {
                                if (input[1] <= 137.431179772531) {
                                    return 0;
                                }
                                else if (input[1] > 137.431179772531)
{
                                    if (input[3] <= 3.853316) {
                                        return 1;
                                    }
                                    else if (input[3] > 3.853316) {
                                        if (input[3] <= 3.887928) {
                                            return 0;
                                        }
                                        else if (input[3] > 3.887928)
{
                                            if (input[1] <=
155.540637641487) {

                                                return 1;
                                            }
                                            else if (input[1] >
155.540637641487) {

                                                return 1;
```

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```
                }
                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                }
                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                }
                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                }
                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                }
                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                }
                else if (input[3] > 6.232364) {
                    if (input[0] <= 87.7638888888889) {
                        if (input[3] <= 6.4878395) {
                            if (input[0] <= 61.0238095238095)
{
                                return 1;
                            }
                            else if (input[0] >
61.0238095238095) {
                                if (input[0] <=
68.0026595744681) {
                                    return 0;
                                }
                                else if (input[0] >
68.0026595744681) {
                                    if (input[0] <= 71.03) {
                                        return 1;
                                    }
                                    else if (input[0] >
71.03) {
                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
```

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```
                                                    }
                                                    else if (input[3] > 6.4878395) {
                                                        if (input[0] <= 57.6794871794872)
{
                                                            if (input[2] <=
0.800172117039587) {
                                                                if (input[0] <=
57.3541666666667) {

                                                                    return 1;
                                                                }
                                                                else if (input[0] >
57.3541666666667) {

                                                                    return 1;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                                            }
                                                            else if (input[2] >
0.800172117039587) {
                                                                if (input[2] <=
0.890227576974565) {

                                                                    return 0;
                                                                }
                                                                else if (input[2] >
0.890227576974565) {

                                                                    return 1;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");

                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");

                                                        }
                                                        else if (input[0] >
57.6794871794872) {
                                                            if (input[0] <=
64.0454545454545) {
                                                                if (input[3] <=
8.6248985) {

                                                                    return 1;
                                                                }
                                                                else if (input[3] >
8.6248985) {

                                                                    return 1;
                                                                }
```

```
                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                        }
                                                        else if (input[0] >
64.0454545454545) {
                                                            if (input[0] <=
64.4327485380117) {
                                                                return 0;
                                                            }
                                                            else if (input[0] >
64.4327485380117) {
                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[0] > 87.7638888888889) {
                                                if (input[0] <= 89.0263157894737) {
                                                    if (input[1] <= 78.4124878348615)
{
                                                        if (input[0] <=
88.8452380952381) {
                                                            if (input[0] <=
88.0079617834395) {
                                                                return 0;
                                                            }
                                                            else if (input[0] >
88.0079617834395) {
                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[0] >
88.8452380952381) {
                                                            return 0;
                                                        }
```

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```
                                               else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                               }
                                               else if (input[1] >
78.4124878348615) {
                                                   return 1;
                                               }
                                               else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                           }
                                           else if (input[0] > 89.0263157894737)
{
                                               if (input[2] <=
0.727833894500561) {
                                                   if (input[0] <=
162.685185185185) {
                                                       if (input[2] <=
0.656310328185328) {
                                                           return 0;
                                                       }
                                                       else if (input[2] >
0.656310328185328) {
                                                           return 1;
                                                       }
                                                       else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                   }
                                                   else if (input[0] >
162.685185185185) {
                                                       if (input[1] <=
181.282889525084) {
                                                           return 0;
                                                       }
                                                       else if (input[1] >
181.282889525084) {
                                                           return 1;
                                                       }
                                                       else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                   }
                                                   else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                               }
                                               else if (input[2] >
0.727833894500561) {
```

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```
                                                    if (input[1] <=
113.436824843248) {
                                                        if (input[1] <=
108.156230385201) {
                                                            return 1;
                                                        }
                                                        else if (input[1] >
108.156230385201) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[1] >
113.436824843248) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                            else if (input[3] > 29.795156) {
                                if (input[2] <= 0.88562091503268) {
                                    if (input[0] <= 130.591666666667) {
                                        if (input[2] <= 0.714065934065934) {
                                            if (input[0] <= 96.0865853658537) {
                                                return 1;
                                            }
                                            else if (input[0] > 96.0865853658537)
{
                                                if (input[0] <= 96.2678571428571)
{
```

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```
                                                return 0;
                                            }
                                            else if (input[0] >
96.2678571428571) {

                                                if (input[3] <= 45.029091) {
                                                    return 1;
                                                }
                                                else if (input[3] >
45.029091) {

                                                    if (input[1] <=
27.3626757981474) {

                                                        return 0;
                                                    }
                                                    else if (input[1] >
27.3626757981474) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                    }
                                    else if (input[2] > 0.714065934065934) {
                                        if (input[3] <= 53.939829) {
                                            if (input[2] <=
0.737136136430462) {

                                                if (input[0] <=
57.730303030303) {

                                                    return 1;
                                                }
                                                else if (input[0] >
57.730303030303) {

                                                    if (input[0] <=
64.3245614035088) {

                                                        return 0;
                                                    }
                                                    else if (input[0] >
64.3245614035088) {

                                                        return 1;
```

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```
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else if (input[2] >
0.737136136430462) {

                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                    }
                                    else if (input[3] > 53.939829) {
                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 2.");
                        }
                        else if (input[0] > 130.591666666667) {
                            if (input[0] <= 133.657657657658) {
                                return 0;
                            }
                            else if (input[0] > 133.657657657658) {
                                if (input[1] <= 36.0972818010336) {
                                    return 1;
                                }
                                else if (input[1] > 36.0972818010336)
{
                                    if (input[0] <= 191.519230769231)
{
                                        if (input[3] <= 40.0036275) {
                                            if (input[2] <=
0.653871704026708) {

                                                return 0;
                                            }
                                            else if (input[2] >
0.653871704026708) {

                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
```

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```
                                                            }
                                                            else if (input[3] >
40.0036275) {
                                                                if (input[1] <=
50.7309544653225) {

                                                                    return 1;
                                                                }
                                                                else if (input[1] >
50.7309544653225) {

                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                    }
                                                    else if (input[0] >
191.519230769231) {

                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else if (input[2] > 0.88562091503268) {
                                        if (input[0] <= 93.9115384615385) {
                                            if (input[1] <= 26.5370838622316) {
                                                if (input[1] <= 17.3584373014379) {
                                                    if (input[0] <= 44.0138888888889)
{

                                                        return 0;
                                                    }
                                                    else if (input[0] >
44.0138888888889) {

                                                        if (input[1] <=
17.0950802647922) {
```

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```
                                                    if (input[0] <=
66.0108695652174) {

                                                        return 0;
                                                    }
                                                    else if (input[0] >
66.0108695652174) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                                }
                                                else if (input[1] >
17.0950802647922) {

                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                        }
                                        else if (input[1] > 17.3584373014379)
{

                                            if (input[0] <= 57.1269841269841)
{

                                                if (input[0] <=
45.5750750750751) {

                                                    return 0;
                                                }
                                                else if (input[0] >
45.5750750750751) {

                                                    if (input[1] <=
18.433364473011) {

                                                        return 0;
                                                    }
                                                    else if (input[1] >
18.433364473011) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                            }
```

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```
                                        else if (input[0] >
57.1269841269841) {
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                }
                                else if (input[1] > 26.5370838622316) {
                                    if (input[0] <= 44.9106858054226) {
                                        return 0;
                                    }
                                    else if (input[0] > 44.9106858054226)
{
                                        if (input[0] <= 74.80625) {
                                            return 1;
                                        }
                                        else if (input[0] > 74.80625) {
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else if (input[0] > 93.9115384615385) {
                                return 1;
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                    }
                    else throw new ArgumentException("input", "Unexpected
value at position 3.");
                }
                else if (input[1] > 217.721997351843) {
                    if (input[0] <= 51.8920634920635) {
                        if (input[0] <= 50.003125) {
```

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```
                                                    return 1;
                                                }
                                                else if (input[0] > 50.003125) {
                                                    return 0;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                            }
                                            else if (input[0] > 51.8920634920635) {
                                                if (input[1] <= 218.124783384573) {
                                                    return 0;
                                                }
                                                else if (input[1] > 218.124783384573) {
                                                    if (input[2] <= 0.71468089310413) {
                                                        if (input[1] <= 242.969502982371) {
                                                            if (input[3] <= 56.4766525) {
                                                                if (input[0] <= 69.1742424242424)
{
                                                                    return 1;
                                                                }
                                                                else if (input[0] >
69.1742424242424) {
                                                                    if (input[0] <=
72.3095238095238) {
                                                                        return 0;
                                                                    }
                                                                    else if (input[0] >
72.3095238095238) {
                                                                        if (input[3] <=
34.6813245) {
                                                                            return 1;
                                                                        }
                                                                        else if (input[3] >
34.6813245) {
                                                                            return 0;
                                                                        }
                                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
                                                            else if (input[3] > 56.4766525) {
```

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```
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                        else if (input[1] > 242.969502982371) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else if (input[2] > 0.71468089310413) {
                                        if (input[2] <= 0.769667418674041) {
                                            return 1;
                                        }
                                        else if (input[2] > 0.769667418674041) {
                                            if (input[0] <= 63.3141447368421) {
                                                return 0;
                                            }
                                            else if (input[0] > 63.3141447368421)
{
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 0.");
                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 1.");
                    }
                    else if (input[0] > 201.015625) {
                        if (input[2] <= 0.684571016582552) {
                            if (input[1] <= 39.6501389247192) {
                                return 1;
                            }
```

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```
                                  else if (input[1] > 39.6501389247192) {
                                      return 0;
                                  }
                                  else throw new ArgumentException("input", "Unexpected
value at position 1.");
                          }
                          else if (input[2] > 0.684571016582552) {
                              if (input[1] <= 54.2358480704816) {
                                  return 0;
                              }
                              else if (input[1] > 54.2358480704816) {
                                  if (input[0] <= 205.513157894737) {
                                      return 0;
                                  }
                                  else if (input[0] > 205.513157894737) {
                                      if (input[3] <= 41.6390825) {
                                          if (input[0] <= 272.027777777778) {
                                              if (input[1] <= 57.9665478302771) {
                                                  return 0;
                                              }
                                              else if (input[1] > 57.9665478302771)
{
                                                  if (input[0] <= 248.03125) {
                                                      if (input[2] <=
0.778078078078078) {
                                                          if (input[0] <=
243.080128205128) {
                                                              return 1;
                                                          }
                                                          else if (input[0] >
243.080128205128) {
                                                              return 0;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                      }
                                                      else if (input[2] >
0.778078078078078) {
                                                          return 0;
                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                  }
                                                  else if (input[0] > 248.03125) {
                                                      return 1;
                                                  }
```

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```
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[0] > 272.027777777778) {
                                                if (input[3] <= 9.9059055) {
                                                    return 0;
                                                }
                                                else if (input[3] > 9.9059055) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else if (input[3] > 41.6390825) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 1.");
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 2.");
                        }
                        else throw new ArgumentException("input", "Unexpected value
at position 0.");
                    }
                    else throw new ArgumentException("input", "Unexpected value at
position 3.");
                }
                else throw new ArgumentException("input", "Unexpected value at
position 2.");
            }
            else throw new ArgumentException("input", "Unexpected value at position
0.");
        }
```

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```
                else throw new ArgumentException("input", "Unexpected value at position 2.");
            }
            else throw new ArgumentException("input", "Unexpected value at position 1.");
        }
        else if (input[1] > 244.511527420214) {
            if (input[3] <= 0.0001425) {
                if (input[3] <= 1.85E-05) {
                    if (input[3] <= 2.5E-06) {
                        if (input[1] <= 40333333.3333333) {
                            return 0;
                        }
                        else if (input[1] > 40333333.3333333) {
                            if (input[1] <= 51694444.4444444) {
                                return 1;
                            }
                            else if (input[1] > 51694444.4444444) {
                                if (input[1] <= 82000000) {
                                    if (input[0] <= 24.775) {
                                        return 0;
                                    }
                                    else if (input[0] > 24.775) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                }
                                else if (input[1] > 82000000) {
                                    return 1;
                                }
                                else throw new ArgumentException("input", "Unexpected value
at position 1.");
                            }
                            else throw new ArgumentException("input", "Unexpected value at
position 1.");
                        }
                        else throw new ArgumentException("input", "Unexpected value at
position 1.");
                    }
                    else if (input[3] > 2.5E-06) {
                        return 1;
                    }
                    else throw new ArgumentException("input", "Unexpected value at position
3.");
                }
                else if (input[3] > 1.85E-05) {
                    if (input[0] <= 1.51923076923077) {
```

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```
if (input[1] <= 641319.233110164) {
    return 0;
}
else if (input[1] > 641319.233110164) {
    if (input[3] <= 9.3E-05) {
        if (input[1] <= 1111674.17417417) {
            return 0;
        }
        else if (input[1] > 1111674.17417417) {
            if (input[3] <= 3.6E-05) {
                if (input[3] <= 2.55E-05) {
                    return 1;
                }
                else if (input[3] > 2.55E-05) {
                    return 0;
                }
                else throw new ArgumentException("input", "Unexpected
value at position 3.");
            }
            else if (input[3] > 3.6E-05) {
                return 1;
            }
            else throw new ArgumentException("input", "Unexpected
value at position 3.");
        }
        else throw new ArgumentException("input", "Unexpected value
at position 1.");
    }
    else if (input[3] > 9.3E-05) {
        return 1;
    }
    else throw new ArgumentException("input", "Unexpected value at
position 3.");
}
else throw new ArgumentException("input", "Unexpected value at
position 1.");
}
else if (input[0] > 1.51923076923077) {
    if (input[2] <= 0.800172117039587) {
        return 1;
    }
    else if (input[2] > 0.800172117039587) {
        if (input[0] <= 66.5113636363636) {
            if (input[3] <= 9.3E-05) {
                return 0;
            }
```

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```
                            else if (input[3] > 9.3E-05) {
                                if (input[0] <= 21.0333333333333) {
                                    return 0;
                                }
                                else if (input[0] > 21.0333333333333) {
                                    return 1;
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 0.");
                            }
                            else throw new ArgumentException("input", "Unexpected value
at position 3.");
                        }
                        else if (input[0] > 66.5113636363636) {
                            return 1;
                        }
                        else throw new ArgumentException("input", "Unexpected value at
position 0.");
                    }
                    else throw new ArgumentException("input", "Unexpected value at
position 2.");
                }
                else throw new ArgumentException("input", "Unexpected value at position
0.");
            }
            else throw new ArgumentException("input", "Unexpected value at position 3.");
        }
        else if (input[3] > 0.0001425) {
            if (input[2] <= 0.644721362229102) {
                if (input[2] <= 0.333764264630269) {
                    if (input[2] <= 0.200609720998402) {
                        if (input[3] <= 59.4880905) {
                            if (input[1] <= 870.122831558771) {
                                if (input[0] <= 945.00641025641) {
                                    if (input[1] <= 796.68844004279) {
                                        return 1;
                                    }
                                    else if (input[1] > 796.68844004279) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                }
                                else if (input[0] > 945.00641025641) {
                                    return 0;
                                }
```

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```
                                     else throw new ArgumentException("input", "Unexpected
value at position 0.");
                             }
                             else if (input[1] > 870.122831558771) {
                                 return 1;
                             }
                             else throw new ArgumentException("input", "Unexpected value
at position 1.");
                         }
                         else if (input[3] > 59.4880905) {
                             return 0;
                         }
                         else throw new ArgumentException("input", "Unexpected value at
position 3.");
                     }
                     else if (input[2] > 0.200609720998402) {
                         if (input[0] <= 232.870431893688) {
                             if (input[3] <= 0.0003365) {
                                 if (input[3] <= 0.0003255) {
                                     if (input[1] <= 430743.546937203) {
                                         if (input[1] <= 422544.779546846) {
                                             if (input[3] <= 0.0002905) {
                                                 return 1;
                                             }
                                             else if (input[3] > 0.0002905) {
                                                 if (input[1] <= 377523.331304524) {
                                                     return 1;
                                                 }
                                                 else if (input[1] > 377523.331304524) {
                                                     return 0;
                                                 }
                                                 else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                             }
                                             else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                         }
                                         else if (input[1] > 422544.779546846) {
                                             return 0;
                                         }
                                         else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                     }
                                     else if (input[1] > 430743.546937203) {
                                         return 1;
                                     }
```

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```
                                                else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                        }
                                    else if (input[3] > 0.0003255) {
                                        if (input[1] <= 370312.75208002) {
                                            return 0;
                                        }
                                        else if (input[1] > 370312.75208002) {
                                            return 1;
                                        }
                                        else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                    }
                                else throw new ArgumentException("input", "Unexpected
value at position 3.");
                            }
                        else if (input[3] > 0.0003365) {
                            if (input[1] <= 16749.1561455379) {
                                if (input[0] <= 84.0454545454545) {
                                    if (input[0] <= 82.6833333333333) {
                                        if (input[0] <= 4.57011494252874) {
                                            if (input[3] <= 0.010845) {
                                                return 0;
                                            }
                                            else if (input[3] > 0.010845) {
                                                if (input[0] <= 0.0625) {
                                                    if (input[3] <= 0.4685715) {
                                                        if (input[1] <=
304.485270404051) {

                                                            return 0;
                                                        }
                                                        else if (input[1] >
304.485270404051) {

                                                            if (input[3] <=
0.0420855) {

                                                                return 0;
                                                            }
                                                            else if (input[3] >
0.0420855) {

                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                        }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
```

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```
                                                              }
                                                              else if (input[3] > 0.4685715) {
                                                                  if (input[1] <=
279.842632192683) {
                                                                      if (input[1] <=
277.654243957186) {
                                                                          return 1;
                                                                      }
                                                                      else if (input[1] >
277.654243957186) {
                                                                          return 0;
                                                                      }
                                                                      else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                  }
                                                                  else if (input[1] >
279.842632192683) {
                                                                      return 1;
                                                                  }
                                                                  else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                              }
                                                              else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                          }
                                                          else if (input[0] > 0.0625) {
                                                              return 1;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                      }
                                                      else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                                  }
                                                  else if (input[0] > 4.57011494252874) {
                                                      if (input[2] <= 0.292893187552565) {
                                                          if (input[0] <= 79.6890804597701) {
                                                              if (input[3] <= 48.319427) {
                                                                  if (input[1] <=
3631.5971059427) {
                                                                      if (input[1] <=
508.522344218879) {
                                                                          return 0;
                                                                      }
                                                                      else if (input[1] >
508.522344218879) {
```

```
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[1] >
3631.5971059427) {

                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[3] > 48.319427) {
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else if (input[0] > 79.6890804597701)
{

                                        if (input[1] <= 1345.60026742745)
{

                                            return 0;
                                        }
                                        else if (input[1] >
1345.60026742745) {

                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else if (input[2] > 0.292893187552565) {
                                    if (input[0] <= 8.87301587301587) {
                                        if (input[0] <= 7.70833333333333)
{

                                            if (input[1] <=
647.04774718201) {

                                                return 1;
                                            }
                                            else if (input[1] >
647.04774718201) {

                                                return 0;
                                            }
```

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```
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[0] >
7.70833333333333) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else if (input[0] > 8.87301587301587)
{
                                                    if (input[3] <= 0.0268735) {
                                                        return 1;
                                                    }
                                                    else if (input[3] > 0.0268735) {
                                                        if (input[0] <=
61.7416666666667) {
                                                            if (input[2] <=
0.329230419633389) {
                                                                return 0;
                                                            }
                                                            else if (input[2] >
0.329230419633389) {
                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                        }
                                                        else if (input[0] >
61.7416666666667) {
                                                            if (input[0] <=
82.3484848484848) {
                                                                return 0;
                                                            }
                                                            else if (input[0] >
82.3484848484848) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
```

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```
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                    else if (input[0] > 82.6833333333333) {
                        if (input[2] <= 0.298376538360827) {
                            return 0;
                        }
                        else if (input[2] > 0.298376538360827) {
                            if (input[0] <= 82.8397435897436) {
                                return 1;
                            }
                            else if (input[0] > 82.8397435897436) {
                                if (input[0] <= 83.6833333333333) {
                                    if (input[0] <= 83.5227272727273)
{
                                        return 0;
                                    }
                                    else if (input[0] >
83.5227272727273) {
                                        if (input[1] <=
1661.74768610587) {
                                            if (input[1] <=
817.492140461958) {
                                                return 0;
                                            }
                                            else if (input[1] >
817.492140461958) {
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[1] >
1661.74768610587) {
                                            return 0;
                                        }
```

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```
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                        else if (input[0] > 83.6833333333333)
{
                                            if (input[3] <= 0.3268025) {
                                                if (input[1] <=
3060.62238020155) {
                                                    if (input[1] <=
1674.0698280038) {
                                                        return 1;
                                                    }
                                                    else if (input[1] >
1674.0698280038) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[1] >
3060.62238020155) {
                                                    if (input[3] <= 0.107571)
{
                                                        return 1;
                                                    }
                                                    else if (input[3] >
0.107571) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[3] > 0.3268025) {
                                                if (input[1] <=
995.023312621773) {
                                                    if (input[1] <=
677.858164801213) {
                                                        return 0;
                                                    }
```

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```
                                        else if (input[1] >
677.858164801213) {
                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else if (input[1] >
995.023312621773) {
                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                }
                else throw new ArgumentException("input",
"Unexpected value at position 0.");
            }
            else if (input[0] > 84.0454545454545) {
                if (input[2] <= 0.243439803439803) {
                    return 1;
                }
                else if (input[2] > 0.243439803439803) {
                    if (input[0] <= 221.228298611111) {
                        if (input[3] <= 0.3649015) {
                            if (input[2] <= 0.266785290628707) {
                                return 0;
                            }
                            else if (input[2] >
0.266785290628707) {
                                if (input[2] <=
0.286021657918381) {
                                    return 1;
                                }
```

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```
                                                    else if (input[2] >
0.286021657918381) {
                                                        if (input[0] <=
126.683333333333) {
                                                            if (input[0] <=
99.3484848484848) {
                                                                return 0;
                                                            }
                                                            else if (input[0] >
99.3484848484848) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[0] >
126.683333333333) {
                                                            if (input[0] <=
174.018867924528) {
                                                                return 0;
                                                            }
                                                            else if (input[0] >
174.018867924528) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                            }
                                            else if (input[3] > 0.3649015) {
                                                if (input[3] <= 44.342485) {
                                                    if (input[2] <= 0.27596784429871)
{
                                                        if (input[0] <=
124.966666666667) {
                                                            if (input[2] <=
0.266785290628707) {
                                                                return 0;
```

```
                                                }
                                                else if (input[2] >
0.266785290628707) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
                                        else if (input[0] >
124.966666666667) {
                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else if (input[2] >
0.27596784429871) {
                                    if (input[1] <=
3934.34109528059) {
                                        if (input[3] <=
24.8356165) {
                                            return 0;
                                        }
                                        else if (input[3] >
24.8356165) {
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else if (input[1] >
3934.34109528059) {
                                        if (input[3] <= 0.673401)
{
                                            return 0;
                                        }
                                        else if (input[3] >
0.673401) {
                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                }
```

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```
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                            }
                                        else if (input[3] > 44.342485) {
                                            if (input[0] <= 127.899947753396)
{
                                                return 1;
                                            }
                                            else if (input[0] >
127.899947753396) {
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                            }
                            else if (input[0] > 221.228298611111) {
                                if (input[2] <= 0.296952351485149) {
                                    return 1;
                                }
                                else if (input[2] > 0.296952351485149) {
                                    if (input[3] <= 0.259026) {
                                        if (input[0] <= 221.361979166667)
{
                                            return 0;
                                        }
                                        else if (input[0] >
221.361979166667) {
                                            if (input[0] <=
231.348484848485) {
                                                if (input[0] <=
222.683333333333) {
                                                    return 1;
                                                }
                                                else if (input[0] >
222.683333333333) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
```

```
                                                        else if (input[0] >
231.348484848485) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else if (input[3] > 0.259026) {
                                                    if (input[0] <= 229.964285714286)
{
                                                        if (input[3] <= 4.636836) {
                                                            return 0;
                                                        }
                                                        else if (input[3] > 4.636836)
{
                                                            if (input[1] <=
1162.6135072739) {
                                                                return 0;
                                                            }
                                                            else if (input[1] >
1162.6135072739) {
                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                    }
                                                    else if (input[0] >
229.964285714286) {
                                                        if (input[0] <=
230.041666666667) {
                                                            return 1;
                                                        }
                                                        else if (input[0] >
230.041666666667) {
                                                            if (input[1] <=
277.313368326234) {
                                                                return 0;
                                                            }
                                                            else if (input[1] >
277.313368326234) {
```

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```
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 2.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                    }
                    else throw new ArgumentException("input", "Unexpected
value at position 0.");
                }
                else if (input[1] > 16749.1561455379) {
                    if (input[1] <= 865460.468649565) {
                        if (input[3] <= 0.002801) {
                            if (input[3] <= 0.0003685) {
                                if (input[1] <= 356150.911731136) {
                                    return 0;
                                }
                                else if (input[1] > 356150.911731136) {
                                    return 1;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else if (input[3] > 0.0003685) {
                                if (input[1] <= 197299.479987394) {
                                    if (input[3] <= 0.0024535) {
                                        if (input[0] <= 30.3440860215054)
{
                                            if (input[3] <= 0.0010315) {
```

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```
                if (input[3] <= 0.0007735) {
                    return 0;
                }
                else if (input[3] > 0.0007735) {
                    return 1;
                }
                else throw new ArgumentException("input", "Unexpected value at position 3.");
            }
            else if (input[3] > 0.0010315) {
                if (input[3] <= 0.0014255) {
                    return 0;
                }
                else if (input[3] > 0.0014255) {
                    return 0;
                }
                else throw new ArgumentException("input", "Unexpected value at position 3.");
            }
            else throw new ArgumentException("input", "Unexpected value at position 3.");
        }
        else if (input[0] > 30.3440860215054) {
            if (input[0] <= 47.6754385964912) {
                return 1;
            }
            else if (input[0] > 47.6754385964912) {
                if (input[0] <= 76.6933333333333) {
                    return 0;
                }
                else if (input[0] > 76.6933333333333) {
                    return 1;
                }
                else throw new ArgumentException("input", "Unexpected value at position 0.");
            }
```

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```
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else if (input[3] > 0.0024535) {
                                        return 1;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
                                else if (input[1] > 197299.479987394) {
                                    if (input[3] <= 0.0010925) {
                                        if (input[1] <= 365294.614674039)
{
                                            if (input[1] <=
330378.449005403) {
                                                if (input[3] <=
0.0006115) {
                                                    return 0;
                                                }
                                                else if (input[3] >
0.0006115) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[1] >
330378.449005403) {
                                                if (input[3] <=
0.0006755) {
                                                    return 1;
                                                }
                                                else if (input[3] >
0.0006755) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
```

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```
                                          else if (input[1] >
365294.614674039) {
                                                return 0;
                                          }
                                          else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                              else if (input[3] > 0.0010925) {
                                    if (input[0] <= 33.343137254902)
{
                                          return 0;
                                    }
                                    else if (input[0] >
33.343137254902) {

                                          if (input[0] <=
106.358974358974) {

                                                if (input[0] <= 87.05) {
                                                      return 1;
                                                }
                                                else if (input[0] >
87.05) {

                                                      return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                          }
                                          else if (input[0] >
106.358974358974) {

                                                return 0;
                                          }
                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                              }
                              else throw new
ArgumentException("input", "Unexpected value at position 3.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                  }
                  else throw new ArgumentException("input",
"Unexpected value at position 3.");
            }
            else if (input[3] > 0.002801) {
```

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```
if (input[0] <= 47.5192307692308) {
    if (input[0] <= 3.59218106995885) {
        if (input[0] <= 0.0625) {
            return 0;
        }
        else if (input[0] > 0.0625) {
            return 1;
        }
        else throw new
ArgumentException("input", "Unexpected value at position 0.");
    }
    else if (input[0] > 3.59218106995885) {
        return 0;
    }
    else throw new ArgumentException("input",
"Unexpected value at position 0.");
}
else if (input[0] > 47.5192307692308) {
    if (input[0] <= 47.8416666666667) {
        if (input[1] <= 166673.204665516) {
            return 1;
        }
        else if (input[1] > 166673.204665516)
{
            return 0;
        }
        else throw new
ArgumentException("input", "Unexpected value at position 1.");
    }
    else if (input[0] > 47.8416666666667) {
        if (input[3] <= 0.3412895) {
            if (input[3] <= 0.003048) {
                if (input[0] <=
48.0041712005803) {
                    return 0;
                }
                else if (input[0] >
48.0041712005803) {
                    return 1;
                }
                else throw new
ArgumentException("input", "Unexpected value at position 0.");
            }
            else if (input[3] > 0.003048) {
                if (input[1] <=
189437.097681986) {
```

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```
                                                        if (input[1] <=
187254.281067945) {

                                                            return 0;
                                                        }
                                                        else if (input[1] >
187254.281067945) {

                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                    }
                                                    else if (input[1] >
189437.097681986) {

                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                            }
                                            else if (input[3] > 0.3412895) {
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");

                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");

                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 3.");

                            }
                            else if (input[1] > 865460.468649565) {
                                return 1;
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 1.");

                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 1.");

                    }
```

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```
                                         else throw new ArgumentException("input", "Unexpected value
at position 3.");
                        }
                        else if (input[0] > 232.870431893688) {
                            if (input[0] <= 577.934523809524) {
                                if (input[1] <= 19581.8794105871) {
                                    if (input[2] <= 0.281802340054767) {
                                        if (input[1] <= 462.677660274816) {
                                            return 1;
                                        }
                                        else if (input[1] > 462.677660274816) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else if (input[2] > 0.281802340054767) {
                                        if (input[1] <= 2205.87963307591) {
                                            if (input[0] <= 233.02380952381) {
                                                return 1;
                                            }
                                            else if (input[0] > 233.02380952381) {
                                                if (input[2] <= 0.300306748466258) {
                                                    return 1;
                                                }
                                                else if (input[2] > 0.300306748466258) {
                                                    if (input[0] <= 235.041666666667) {
                                                        if (input[0] <= 233.966666666667)
{

                                                            return 0;
                                                        }
                                                        else if (input[0] >
233.966666666667) {

                                                            if (input[1] <=
706.169303374157) {

                                                                return 1;
                                                            }
                                                            else if (input[1] >
706.169303374157) {

                                                                if (input[0] <=
234.944444444444) {

                                                                    return 0;
                                                                }
                                                                else if (input[0] >
234.944444444444) {

                                                                    return 1;
```

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```
                                                        }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                            else if (input[0] > 235.041666666667)
{
                                if (input[1] <= 1999.12633927287)
{
                                    return 0;
                                }
                                else if (input[1] >
1999.12633927287) {
                                    if (input[1] <=
2002.40367721045) {
                                        return 1;
                                    }
                                    else if (input[1] >
2002.40367721045) {
                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                }
                else if (input[1] > 2205.87963307591) {
                    if (input[0] <= 234.027777777778) {
                        if (input[3] <= 0.3554485) {
                            if (input[3] <= 0.053805) {
```

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```
                                                          if (input[1] <= 14610.8227329601)
{
                                                              return 0;
                                                          }
                                                          else if (input[1] >
14610.8227329601) {
                                                              return 1;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                      }
                                                  else if (input[3] > 0.053805) {
                                                      return 1;
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                              }
                                          else if (input[3] > 0.3554485) {
                                              if (input[0] <= 233.02380952381) {
                                                  return 1;
                                              }
                                              else if (input[0] > 233.02380952381)
{
                                                  if (input[1] <= 3789.69775341197)
{
                                                      return 0;
                                                  }
                                                  else if (input[1] >
3789.69775341197) {
                                                      return 1;
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                          }
                                          else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                      }
                                  else if (input[0] > 234.027777777778) {
                                      if (input[3] <= 2.007021) {
                                          if (input[0] <= 354.86015037594) {
                                              if (input[0] <= 235.354166666667)
{
                                                  if (input[3] <= 0.2396275) {
```

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```
                    return 1;
                }
                else if (input[3] >
0.2396275) {
                    if (input[1] <=
3211.64198238913) {
                        return 1;
                    }
                    else if (input[1] >
3211.64198238913) {
                        return 0;
                    }
                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                }
                else throw new
ArgumentException("input", "Unexpected value at position 3.");
            }
            else if (input[0] >
235.354166666667) {
                if (input[0] <=
350.577006769826) {
                    if (input[3] <=
0.2563325) {
                        return 0;
                    }
                    else if (input[3] >
0.2563325) {
                        return 0;
                    }
                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                }
                else if (input[0] >
350.577006769826) {
                    if (input[0] <=
350.681049069374) {
                        return 1;
                    }
                    else if (input[0] >
350.681049069374) {
                        return 0;
                    }
                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                }
```

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```
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[0] > 354.86015037594)
{
                                                    if (input[0] <= 377.425824175824)
{
                                                            return 1;
                                                    }
                                                    else if (input[0] >
377.425824175824) {
                                                            return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                            else if (input[3] > 2.007021) {
                                    if (input[1] <= 3068.66094425992) {
                                            if (input[1] <= 2767.43954507595)
{
                                                    if (input[0] <=
249.784722222222) {
                                                            return 0;
                                                    }
                                                    else if (input[0] >
249.784722222222) {
                                                            if (input[1] <=
2648.07298801367) {
                                                                    return 1;
                                                            }
                                                            else if (input[1] >
2648.07298801367) {
                                                                    return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
```

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```
                                               else if (input[1] >
2767.43954507595) {
                                                   return 0;
                                               }
                                               else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                           }
                                       else if (input[1] > 3068.66094425992)
{
                                           if (input[2] <=
0.286021657918381) {
                                               if (input[0] <=
407.760073260073) {
                                                   return 1;
                                               }
                                               else if (input[0] >
407.760073260073) {
                                                   if (input[0] <=
458.987804878049) {
                                                       return 0;
                                                   }
                                                   else if (input[0] >
458.987804878049) {
                                                       return 1;
                                                   }
                                                   else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                               }
                                               else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                           }
                                           else if (input[2] >
0.286021657918381) {
                                               return 1;
                                           }
                                           else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                       }
                                       else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                   }
                               else throw new ArgumentException("input",
"Unexpected value at position 3.");
                           }
                       else throw new ArgumentException("input",
"Unexpected value at position 0.");
```

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```
                                                                  }
                                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                          }
                                else throw new ArgumentException("input", "Unexpected
value at position 2.");
                    }
          else if (input[1] > 19581.8794105871) {
                if (input[0] <= 235.354166666667) {
                    return 1;
                }
                else if (input[0] > 235.354166666667) {
                    if (input[1] <= 888749.110501169) {
                        if (input[3] <= 0.2357195) {
                            if (input[0] <= 357.342342342342) {
                                return 0;
                            }
                            else if (input[0] > 357.342342342342) {
                                if (input[0] <= 361.343137254902) {
                                    return 1;
                                }
                                else if (input[0] > 361.343137254902)
{
                                    return 0;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                        else if (input[3] > 0.2357195) {
                            if (input[0] <= 361.343137254902) {
                                return 0;
                            }
                            else if (input[0] > 361.343137254902) {
                                if (input[1] <= 21535.7973709156) {
                                    return 0;
                                }
                                else if (input[1] > 21535.7973709156)
{
                                    return 1;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                            }
```

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```
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                    else if (input[1] > 888749.110501169) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 0.");
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 1.");
                        }
                        else if (input[0] > 577.934523809524) {
                            if (input[2] <= 0.315612857647474) {
                                if (input[2] <= 0.245867486338798) {
                                    if (input[0] <= 856.635461604832) {
                                        if (input[1] <= 96770.827523534) {
                                            if (input[0] <= 845.977805330295) {
                                                return 1;
                                            }
                                            else if (input[0] > 845.977805330295) {
                                                if (input[0] <= 849.846436953275) {
                                                    return 0;
                                                }
                                                else if (input[0] > 849.846436953275)
{
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else if (input[1] > 96770.827523534) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
```

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```
                                    else if (input[0] > 856.635461604832) {
                                        if (input[2] <= 0.245664160401003) {
                                            if (input[3] <= 11.3783045) {
                                                if (input[3] <= 2.2532215) {
                                                    if (input[3] <= 2.1697685) {
                                                        return 0;
                                                    }
                                                    else if (input[3] > 2.1697685) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else if (input[3] > 2.2532215) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[3] > 11.3783045) {
                                                if (input[0] <= 955.787271202102) {
                                                    if (input[2] <=
0.239575811067426) {

                                                        return 1;
                                                    }
                                                    else if (input[2] >
0.239575811067426) {

                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                }
                                                else if (input[0] > 955.787271202102)
{

                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                        }
                                        else if (input[2] > 0.245664160401003) {
                                            return 1;
                                        }
```

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```
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                            }
                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                }
            else if (input[2] > 0.245867486338798) {
                if (input[0] <= 919.08720349563) {
                    if (input[3] <= 12.391487) {
                        if (input[2] <= 0.246476077029978) {
                            if (input[0] <= 883.033811346311) {
                                return 0;
                            }
                            else if (input[0] > 883.033811346311)
{
                                return 1;
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                        }
                        else if (input[2] > 0.246476077029978) {
                            if (input[0] <= 893.76581540057) {
                                if (input[3] <= 4.342691) {
                                    if (input[3] <= 4.092686) {
                                        if (input[1] <=
34456.6256650784) {
                                            return 0;
                                        }
                                        else if (input[1] >
34456.6256650784) {
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else if (input[3] > 4.092686)
{
                                        if (input[0] <=
855.188791746809) {
                                            return 0;
                                        }
                                        else if (input[0] >
855.188791746809) {
                                            return 1;
                                        }
```

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```
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else if (input[3] > 4.342691) {
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else if (input[0] > 893.76581540057)
{
                                        if (input[0] <= 893.83610816543)
{
                                            return 1;
                                        }
                                        else if (input[0] >
893.83610816543) {
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 2.");
                            }
                            else if (input[3] > 12.391487) {
                                if (input[1] <= 31764.3347257957) {
                                    if (input[3] <= 50.943565) {
                                        if (input[3] <= 12.391647) {
                                            return 1;
                                        }
                                        else if (input[3] > 12.391647) {
                                            if (input[2] <=
0.307440925087984) {
                                                if (input[3] <=
25.9369645) {
                                                    return 0;
                                                }
                                                else if (input[3] >
25.9369645) {
```

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```
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else if (input[2] >
0.307440925087984) {
                                            if (input[2] <=
0.307981492192019) {
                                                return 0;
                                            }
                                            else if (input[2] >
0.307981492192019) {
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
                                else if (input[3] > 50.943565) {
                                    return 1;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                            }
                            else if (input[1] > 31764.3347257957) {
                                return 1;
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                    }
                    else if (input[0] > 919.08720349563) {
                        if (input[2] <= 0.249624624624625) {
                            return 0;
                        }
                        else if (input[2] > 0.249624624624625) {
                            if (input[1] <= 20208.0134019143) {
                                if (input[0] <= 928.283475316732) {
```

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```
                                                       return 0;
                                                   }
                                                   else if (input[0] > 928.283475316732)

{

                                                       return 1;
                                                   }
                                                   else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                               }
                                               else if (input[1] > 20208.0134019143) {
                                                   return 1;
                                               }
                                               else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                           }
                                           else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                       }
                                       else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                   }
                                   else throw new ArgumentException("input", "Unexpected
value at position 2.");
                               }
                               else if (input[2] > 0.315612857647474) {
                                   if (input[1] <= 23485.0892511009) {
                                       if (input[3] <= 16.70947) {
                                           return 0;
                                       }
                                       else if (input[3] > 16.70947) {
                                           if (input[1] <= 5965.65157819816) {
                                               if (input[3] <= 17.972071) {
                                                   return 1;
                                               }
                                               else if (input[3] > 17.972071) {
                                                   if (input[3] <= 45.8663695) {
                                                       return 0;
                                                   }
                                                   else if (input[3] > 45.8663695) {
                                                       return 1;
                                                   }
                                                   else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                               }
                                               else throw new ArgumentException("input",
"Unexpected value at position 3.");
```

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```
                        }
                        else if (input[1] > 5965.65157819816) {
                            return 1;
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                }
                else if (input[1] > 23485.0892511009) {
                    if (input[0] <= 769.72776371308) {
                        if (input[0] <= 688.356328616352) {
                            if (input[1] <= 43370.1524059373) {
                                return 0;
                            }
                            else if (input[1] > 43370.1524059373) {
                                return 1;
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                        }
                        else if (input[0] > 688.356328616352) {
                            return 1;
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                    }
                    else if (input[0] > 769.72776371308) {
                        return 0;
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                }
                else throw new ArgumentException("input", "Unexpected
value at position 1.");
            }
            else throw new ArgumentException("input", "Unexpected
value at position 2.");
        }
        else throw new ArgumentException("input", "Unexpected value
at position 0.");
    }
    else throw new ArgumentException("input", "Unexpected value at
position 0.");
}
```

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```
                        else throw new ArgumentException("input", "Unexpected value at
position 2.");
                }
            else if (input[2] > 0.333764264630269) {
                if (input[0] <= 281.076923076923) {
                    if (input[3] <= 0.0352925) {
                        if (input[1] <= 678552.9250107) {
                            if (input[0] <= 64.0454545454545) {
                                if (input[1] <= 390354.045422124) {
                                    if (input[0] <= 63.5071428571429) {
                                        if (input[3] <= 0.0002555) {
                                            return 0;
                                        }
                                        else if (input[3] > 0.0002555) {
                                            if (input[1] <= 370312.75208002) {
                                                if (input[3] <= 0.0005245) {
                                                    if (input[1] <= 165636.980439568)
{
                                                        return 1;
                                                    }
                                                    else if (input[1] >
165636.980439568) {
                                                        if (input[1] <=
291970.802919708) {
                                                            if (input[1] <=
291864.044348066) {
                                                                return 0;
                                                            }
                                                            else if (input[1] >
291864.044348066) {
                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else if (input[1] >
291970.802919708) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[3] > 0.0005245) {
```

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```
                                                    if (input[1] <= 9957.45402014572)
{
                                                        if (input[1] <=
8021.07043417749) {
                                                            if (input[0] <= 36.51) {
                                                                return 0;
                                                            }
                                                            else if (input[0] >
36.51) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[1] >
8021.07043417749) {
                                                            if (input[3] <=
0.0204245) {
                                                                return 0;
                                                            }
                                                            else if (input[3] >
0.0204245) {
                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[1] >
9957.45402014572) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[1] > 370312.75208002) {
                                                if (input[1] <= 375000) {
                                                    return 1;
                                                }
                                                else if (input[1] > 375000) {
                                                    return 0;
```

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```
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                    else if (input[0] > 63.5071428571429) {
                                        if (input[1] <= 5271.23903900132) {
                                            return 1;
                                        }
                                        else if (input[1] > 5271.23903900132) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[1] > 390354.045422124) {
                                    if (input[0] <= 0.0625) {
                                        if (input[1] <= 585624.459456301) {
                                            if (input[3] <= 0.0002335) {
                                                if (input[1] <= 534346.701739107) {
                                                    return 0;
                                                }
                                                else if (input[1] > 534346.701739107)
{
                                                    if (input[1] <= 536347.692772274)
{
                                                        return 1;
                                                    }
                                                    else if (input[1] >
536347.692772274) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
```

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```
                                    else if (input[3] > 0.0002335) {
                                        if (input[1] <= 406815.954705477) {
                                            return 1;
                                        }
                                        else if (input[1] > 406815.954705477)
{
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                }
                                else if (input[1] > 585624.459456301) {
                                    return 1;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else if (input[0] > 0.0625) {
                                return 1;
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 1.");
                    }
                    else if (input[0] > 64.0454545454545) {
                        if (input[1] <= 20208.2587136806) {
                            if (input[1] <= 20208.0134019143) {
                                if (input[1] <= 11262.6554683383) {
                                    return 0;
                                }
                                else if (input[1] > 11262.6554683383) {
                                    if (input[1] <= 11262.9284653346) {
                                        return 1;
                                    }
                                    else if (input[1] > 11262.9284653346) {
                                        if (input[0] <= 92.0333333333333) {
                                            if (input[0] <= 91.0161290322581)
{
                                                if (input[3] <= 0.017265) {
                                                    return 0;
                                                }
```

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```
                                                          else if (input[3] > 0.017265)

    {
                                                              if (input[3] <=

0.0172735) {

                                                                  return 1;
                                                                  }
                                                              else if (input[3] >

0.0172735) {

                                                                  return 0;
                                                                  }
                                                              else throw new

ArgumentException("input", "Unexpected value at position 3.");

                                                              }
                                                          else throw new

ArgumentException("input", "Unexpected value at position 3.");

                                                          }
                                                      else if (input[0] >

91.0161290322581) {

                                                          if (input[1] <=

15313.1837732452) {

                                                              if (input[1] <=

13334.868915519) {

                                                                  return 0;
                                                                  }
                                                              else if (input[1] >

13334.868915519) {

                                                                  return 1;
                                                                  }
                                                              else throw new

ArgumentException("input", "Unexpected value at position 1.");

                                                              }
                                                          else if (input[1] >

15313.1837732452) {

                                                              return 0;
                                                              }
                                                          else throw new

ArgumentException("input", "Unexpected value at position 1.");

                                                          }
                                                      else throw new

ArgumentException("input", "Unexpected value at position 0.");

                                                      }
                                                  else if (input[0] > 92.0333333333333)

    {

                                                      return 0;
                                                      }
```

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```
                                                      else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                                else if (input[1] > 20208.0134019143) {
                                    return 1;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else if (input[1] > 20208.2587136806) {
                                if (input[3] <= 0.0027095) {
                                    if (input[1] <= 224547.096445833) {
                                        return 1;
                                    }
                                    else if (input[1] > 224547.096445833) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                                else if (input[3] > 0.0027095) {
                                    return 0;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 1.");
                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 0.");
                    }
                    else if (input[1] > 678552.9250107) {
                        if (input[0] <= 1.51923076923077) {
                            return 1;
                        }
                        else if (input[0] > 1.51923076923077) {
                            return 0;
                        }
```

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```
                                else throw new ArgumentException("input", "Unexpected
value at position 0.");
                }
            else throw new ArgumentException("input", "Unexpected value
at position 1.");
        }
    else if (input[3] > 0.0352925) {
        if (input[3] <= 0.162399) {
            if (input[3] <= 0.116622) {
                if (input[3] <= 0.0713845) {
                    if (input[0] <= 4.63076923076923) {
                        if (input[1] <= 1150.69861496211) {
                            if (input[1] <= 1143.58021045715) {
                                return 0;
                            }
                            else if (input[1] > 1143.58021045715) {
                                return 1;
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                        }
                        else if (input[1] > 1150.69861496211) {
                            if (input[3] <= 0.0378925) {
                                if (input[3] <= 0.037726) {
                                    return 0;
                                }
                                else if (input[3] > 0.037726) {
                                    return 1;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                            }
                            else if (input[3] > 0.0378925) {
                                return 0;
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                    }
                    else if (input[0] > 4.63076923076923) {
                        if (input[0] <= 7.04) {
                            if (input[1] <= 5326.69556134404) {
                                return 1;
                            }
```

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```
                                        else if (input[1] > 5326.69556134404) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                                else if (input[0] > 7.04) {
                                    if (input[1] <= 2179.72487475531) {
                                        if (input[0] <= 40.0178571428571) {
                                            if (input[0] <= 22.0384615384615)
{
                                                return 0;
                                            }
                                            else if (input[0] >
22.0384615384615) {
                                                if (input[0] <=
34.0178571428571) {
                                                    if (input[3] <=
0.0526735) {
                                                        return 0;
                                                    }
                                                    else if (input[3] >
0.0526735) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else if (input[0] >
34.0178571428571) {
                                                    if (input[0] <=
34.5178571428571) {
                                                        return 0;
                                                    }
                                                    else if (input[0] >
34.5178571428571) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
```

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```
                                                           }
                                                 else if (input[0] > 40.0178571428571)
{
                                                     if (input[1] <= 2152.22208943569)
{
                                                         if (input[3] <= 0.0682945) {
                                                             if (input[3] <=
0.0681635) {

                                                                 return 0;
                                                             }
                                                             else if (input[3] >
0.0681635) {

                                                                 return 1;
                                                             }
                                                             else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                         }
                                                         else if (input[3] >
0.0682945) {

{
                                                             if (input[3] <= 0.070841)

                                                                 return 0;
                                                             }
                                                             else if (input[3] >
0.070841) {

                                                                 return 0;
                                                             }
                                                             else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                         }
                                                         else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                     }
                                                     else if (input[1] >
2152.22208943569) {

                                                         return 1;
                                                     }
                                                     else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                 }
                                                 else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                             }
                                             else if (input[1] > 2179.72487475531) {
                                                 if (input[3] <= 0.0402885) {
                                                     if (input[3] <= 0.04013) {
```

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```
                            return 0;
                        }
                        else if (input[3] > 0.04013) {
                            if (input[3] <= 0.0401325) {
                                if (input[0] <=
80.0294117647059) {
                                    return 1;
                                }
                                else if (input[0] >
80.0294117647059) {
                                    return 0;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                            }
                            else if (input[3] >
0.0401325) {
                                return 0;
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                    }
                    else if (input[3] > 0.0402885) {
                        if (input[3] <= 0.043763) {
                            if (input[0] <=
54.0151515151515) {
                                if (input[0] <=
48.0041712005803) {
                                    return 0;
                                }
                                else if (input[0] >
48.0041712005803) {
                                    return 0;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                            }
                            else if (input[0] >
54.0151515151515) {
                                if (input[2] <=
0.400143472022956) {
                                    return 0;
                                }
```

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```
                                              else if (input[2] >
0.400143472022956) {
                                                  return 1;
                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                          }
                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                      }
                                      else if (input[3] > 0.043763) {
                                          if (input[0] <=
122.027777777778) {
                                              if (input[0] <=
36.0178571428571) {
                                                  return 0;
                                              }
                                              else if (input[0] >
36.0178571428571) {
                                                  return 0;
                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                          }
                                          else if (input[0] >
122.027777777778) {
                                              if (input[2] <=
0.500656167979003) {
                                                  return 0;
                                              }
                                              else if (input[2] >
0.500656167979003) {
                                                  return 0;
                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                          }
                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                      }
                                      else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                  }
                                  else throw new
ArgumentException("input", "Unexpected value at position 3.");
                              }
```

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```
                                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                            }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                        else if (input[3] > 0.0713845) {
                            if (input[3] <= 0.080622) {
                                if (input[3] <= 0.080559) {
                                    if (input[1] <= 1696.459836514) {
                                        if (input[0] <= 22.0384615384615) {
                                            if (input[1] <= 1108.53161067919)
{
                                                return 0;
                                            }
                                            else if (input[1] >
1108.53161067919) {
                                                if (input[1] <=
1187.12862071911) {
                                                    return 1;
                                                }
                                                else if (input[1] >
1187.12862071911) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[0] > 22.0384615384615)
{
                                            if (input[0] <= 29.0166666666667)
{
                                                return 1;
                                            }
                                            else if (input[0] >
29.0166666666667) {
                                                if (input[0] <=
34.5178571428571) {
                                                    if (input[3] <= 0.071545)
{
```

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```
                                        return 1;
                                    }
                                    else if (input[3] >
0.071545) {
                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
                                else if (input[0] >
34.5178571428571) {
                                    return 1;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                    }
                    else if (input[1] > 1696.459836514) {
                        if (input[0] <= 34.5178571428571) {
                            return 0;
                        }
                        else if (input[0] > 34.5178571428571)
{
                            if (input[0] <= 38.0178571428571)
{
                                if (input[1] <=
1720.75794598152) {
                                    return 0;
                                }
                                else if (input[1] >
1720.75794598152) {
                                    return 1;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                            }
                            else if (input[0] >
38.0178571428571) {
                                if (input[1] <=
8228.24484962893) {
```

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```
                                            if (input[0] <=
81.5277777777778) {

                                                return 0;
                                            }
                                            else if (input[0] >
81.5277777777778) {

                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                        }
                                        else if (input[1] >
8228.24484962893) {

                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                        }
                        else if (input[3] > 0.080559) {
                            if (input[0] <= 154.027777777778) {
                                if (input[0] <= 78.0263157894737) {
                                    if (input[0] <= 73.5277777777778)
{

                                        return 1;
                                    }
                                    else if (input[0] >
73.5277777777778) {

                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else if (input[0] > 78.0263157894737)
{

                                        return 1;
                                    }
```

```
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                        else if (input[0] > 154.027777777778) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                }
                            else if (input[3] > 0.080622) {
                                if (input[0] <= 54.5590277777778) {
                                    if (input[3] <= 0.116553) {
                                        if (input[1] <= 1367.38892358349) {
                                            if (input[1] <= 1366.70438248348)
{
                                                if (input[3] <= 0.1029835) {
                                                    if (input[0] <=
22.0384615384615) {
                                                        return 0;
                                                    }
                                                    else if (input[0] >
22.0384615384615) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else if (input[3] >
0.1029835) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[1] >
1366.70438248348) {
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[1] > 1367.38892358349)
{
```

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```
                                                    if (input[1] <= 7642.9531680451)

    {

                                                        if (input[3] <= 0.103096) {
                                                            if (input[3] <=
0.1030825) {

                                                                return 0;
                                                            }
                                                            else if (input[3] >
0.1030825) {

                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                        }
                                                        else if (input[3] > 0.103096)
    {

                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                    }
                                                    else if (input[1] >
7642.9531680451) {

                                                        if (input[0] <=
6.29707792207792) {

                                                            return 1;
                                                        }
                                                        else if (input[0] >
6.29707792207792) {

                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                            }
                                            else if (input[3] > 0.116553) {
                                                if (input[0] <= 18.775) {
                                                    return 1;
                                                }
                                                else if (input[0] > 18.775) {
                                                    return 0;
```

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```
                                                                    }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                            }
                                    else if (input[0] > 54.5590277777778) {
                                        if (input[1] <= 6993.71871988067) {
                                            if (input[0] <= 67.5227272727273) {
                                                if (input[3] <= 0.103415) {
                                                    if (input[3] <= 0.1027265) {
                                                        if (input[1] <=
2326.32820788677) {

                                                            return 0;
                                                        }
                                                        else if (input[1] >
2326.32820788677) {

                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                    }
                                                    else if (input[3] >
0.1027265) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                }
                                                else if (input[3] > 0.103415) {
                                                    if (input[0] <=
64.5192307692308) {

                                                        if (input[0] <=
64.0454545454545) {

                                                            return 0;
                                                        }
                                                        else if (input[0] >
64.0454545454545) {

                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                                    }
                                                    else if (input[0] >
64.5192307692308) {
```

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```
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[0] > 67.5227272727273)
{
                                                if (input[1] <= 1888.05961497013)
{
                                                    return 0;
                                                }
                                                else if (input[1] >
1888.05961497013) {
                                                    if (input[1] <=
6021.16835257541) {
                                                        if (input[1] <=
4994.47077273798) {
                                                            return 0;
                                                        }
                                                        else if (input[1] >
4994.47077273798) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[1] >
6021.16835257541) {
                                                        if (input[1] <=
6026.69188607336) {
                                                            return 1;
                                                        }
                                                        else if (input[1] >
6026.69188607336) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
```

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```
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else if (input[1] > 6993.71871988067) {
                                                    return 0;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 3.");
                                }
                                else if (input[3] > 0.116622) {
                                    if (input[1] <= 4869.97303328803) {
                                        if (input[0] <= 18.5584415584416) {
                                            if (input[3] <= 0.1194115) {
                                                if (input[1] <= 1941.17560222786) {
                                                    if (input[3] <= 0.1168955) {
                                                        if (input[0] <= 0.0625) {
                                                            return 0;
                                                        }
                                                        else if (input[0] > 0.0625) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[3] > 0.1168955) {
                                                        if (input[1] <= 889.768086066371)
{
                                                            if (input[0] <= 0.0625) {
                                                                return 0;
                                                            }
                                                            else if (input[0] > 0.0625) {
                                                                return 1;
                                                            }
```

```
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[1] >
889.768086066371) {

                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else if (input[1] > 1941.17560222786) {
                                                    return 1;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                            }
                                            else if (input[3] > 0.1194115) {
                                                if (input[1] <= 1337.79640201276) {
                                                    if (input[1] <= 1336.75847878488) {
                                                        if (input[1] <= 1302.77367644591)
{

                                                            if (input[3] <= 0.148378) {
                                                                return 0;
                                                            }
                                                            else if (input[3] > 0.148378)

                                                                if (input[3] <=
0.1485255) {

                                                                    return 1;
                                                                }
                                                                else if (input[3] >
0.1485255) {

                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                    }
                                                    else if (input[1] >
1302.77367644591) {

                                                        if (input[3] <= 0.1223395) {
```

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```
                                                    return 0;
                                                }
                                            else if (input[3] >
0.1223395) {

                                                if (input[0] <= 0.0625) {
                                                    return 1;
                                                }
                                                else if (input[0] >
0.0625) {

                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else if (input[1] > 1336.75847878488)
{

                                        return 1;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                }
                                else if (input[1] > 1337.79640201276) {
                                    return 0;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                        }
                        else if (input[0] > 18.5584415584416) {
                            if (input[2] <= 0.500656167979003) {
                                if (input[0] <= 18.775) {
                                    if (input[1] <= 1734.62936733071) {
                                        if (input[1] <= 1521.77435039596)
{

                                            if (input[1] <=
1456.76713376223) {

                                                return 0;
                                            }
```

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```
                                        else if (input[1] >
1456.76713376223) {

                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else if (input[1] >
1521.77435039596) {

                                        if (input[1] <=
1592.54496335811) {

                                            return 0;
                                        }
                                        else if (input[1] >
1592.54496335811) {

                                            if (input[1] <=
1667.61621106117) {

                                                return 1;
                                            }
                                            else if (input[1] >
1667.61621106117) {

                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                }
                                else if (input[1] > 1734.62936733071)
{

                                    return 1;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                            }
                            else if (input[0] > 18.775) {
                                if (input[0] <= 54.0151515151515) {
                                    if (input[1] <= 846.951386940608)
{

                                        if (input[0] <=
25.8787114845938) {

                                            return 0;
```

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```
                                              }
                                              else if (input[0] >
25.8787114845938) {
                                                  if (input[0] <=
34.0178571428571) {

                                                      return 1;
                                                  }
                                                  else if (input[0] >
34.0178571428571) {

                                                      return 0;
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                          }
                                          else if (input[1] >
846.951386940608) {

                                              if (input[3] <= 0.1400425) {
                                                  if (input[1] <=
2806.94084079076) {

                                                      return 0;
                                                  }
                                                  else if (input[1] >
2806.94084079076) {

                                                      return 1;
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                              }
                                              else if (input[3] >
0.1400425) {

                                                  return 0;
                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                          }
                                          else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                      }
                                      else if (input[0] > 54.0151515151515)
{

                                          if (input[3] <= 0.1447995) {
                                              if (input[3] <= 0.1226835) {
```

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```
{




0.122248) {




ArgumentException("input", "Unexpected value at position 3.");




0.1226835) {


129.035714285714) {




129.035714285714) {




ArgumentException("input", "Unexpected value at position 0.");




ArgumentException("input", "Unexpected value at position 3.");



256.02380952381) {


244.027777777778) {




244.027777777778) {




ArgumentException("input", "Unexpected value at position 0.");




256.02380952381) {


0.1465335) {

                            return 1;
```

```
                if (input[3] <= 0.122248)

                    return 0;
                }
                else if (input[3] >
0.122248) {

                    return 0;
                }
                else throw new

            }
            else if (input[3] >
0.1226835) {

                if (input[0] <=

                    return 1;
                }
                else if (input[0] >

                    return 1;
                }
                else throw new

            }
            else throw new

        }
        else if (input[3] > 0.1447995) {
            if (input[0] <=

                if (input[0] <=

                    return 0;
                }
                else if (input[0] >

                    return 0;
                }
                else throw new

            }
            else if (input[0] >

                if (input[3] <=

                    return 1;
```

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```
                                                    }
                                                    else if (input[3] >
0.1465335) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[2] > 0.500656167979003) {
                                    return 0;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 2.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                        else if (input[1] > 4869.97303328803) {
                            if (input[0] <= 271.45) {
                                return 0;
                            }
                            else if (input[0] > 271.45) {
                                if (input[1] <= 4909.81542433173) {
                                    return 1;
                                }
                                else if (input[1] > 4909.81542433173) {
                                    if (input[0] <= 273.041666666667) {
                                        return 1;
                                    }
                                    else if (input[0] > 273.041666666667) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
```

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```
                                          }
                                          else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                      }
                                      else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                  }
                                  else throw new ArgumentException("input", "Unexpected
value at position 1.");
                              }
                              else throw new ArgumentException("input", "Unexpected
value at position 3.");
                          }
                          else if (input[3] > 0.162399) {
                              if (input[2] <= 0.440108695652174) {
                                  if (input[2] <= 0.437668918918919) {
                                      if (input[0] <= 71.9875) {
                                          if (input[0] <= 40.781746031746) {
                                              if (input[2] <= 0.400143472022956) {
                                                  if (input[2] <= 0.351164692101477) {
                                                      return 1;
                                                  }
                                                  else if (input[2] >
0.351164692101477) {
                                                      if (input[0] <= 5.31845238095238)
{
                                                          if (input[0] <= 0.0625) {
                                                              return 0;
                                                          }
                                                          else if (input[0] > 0.0625) {
                                                              return 1;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                      }
                                                      else if (input[0] >
5.31845238095238) {
                                                          if (input[0] <=
35.9612592489181) {
                                                              return 0;
                                                          }
                                                          else if (input[0] >
35.9612592489181) {
                                                              if (input[1] <=
376.900779634904) {
                                                                  return 0;
```

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```
                                                        }
                                                        else if (input[1] >
376.900779634904) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
                                        else if (input[2] > 0.400143472022956) {
                                            if (input[2] <= 0.423194903256253) {
                                                return 1;
                                            }
                                            else if (input[2] >
0.423194903256253) {
                                                if (input[3] <= 1.6762925) {
                                                    if (input[3] <= 0.9137475) {
                                                        if (input[1] <=
1538.0643984693) {
                                                            return 1;
                                                        }
                                                        else if (input[1] >
1538.0643984693) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[3] >
0.9137475) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else if (input[3] > 1.6762925) {
                                                    return 0;
                                                }
```

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```
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                                else if (input[0] > 40.781746031746) {
                                    if (input[3] <= 0.5775455) {
                                        return 0;
                                    }
                                    else if (input[3] > 0.5775455) {
                                        if (input[0] <= 68.3603896103896) {
                                            if (input[1] <= 244.87006082571)
{

                                                return 0;
                                            }
                                            else if (input[1] >
244.87006082571) {

                                                if (input[3] <= 58.2559545) {
                                                    return 1;
                                                }
                                                else if (input[3] >
58.2559545) {

                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[0] > 68.3603896103896)
{

                                            if (input[1] <= 893.557729219558)
{

                                                return 0;
                                            }
                                            else if (input[1] >
893.557729219558) {

                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
```

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```
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else if (input[0] > 71.9875) {
                                        if (input[3] <= 3.1465595) {
                                            if (input[0] <= 87.8633540372671) {
                                                if (input[0] <= 87.3188405797101) {
                                                    if (input[3] <= 0.359609) {
                                                        return 0;
                                                    }
                                                    else if (input[3] > 0.359609) {
                                                        if (input[1] <=
1500.98624806461) {

                                                            return 0;
                                                        }
                                                        else if (input[1] >
1500.98624806461) {

                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else if (input[0] > 87.3188405797101)
{
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[0] > 87.8633540372671) {
                                                if (input[0] <= 278.97619047619) {
                                                    if (input[2] <=
0.416742839731871) {
                                                        if (input[2] <=
0.340919050274878) {
                                                            return 1;
```

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```
                                                        }
                                                        else if (input[2] >
0.340919050274878) {
                                                            if (input[1] <=
6030.18462986361) {
                                                                return 0;
                                                            }
                                                            else if (input[1] >
6030.18462986361) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                    }
                                                    else if (input[2] >
0.416742839731871) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                }
                                                else if (input[0] > 278.97619047619)
{
                                                    if (input[0] <= 279.212903225806)
{
                                                        return 1;
                                                    }
                                                    else if (input[0] >
279.212903225806) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else if (input[3] > 3.1465595) {
                                            if (input[2] <= 0.37505152514427) {
                                                if (input[2] <= 0.373105625717566) {
```

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```
                                                    if (input[1] <= 744.093809232709)
{
                                                        return 0;
                                                    }
                                                    else if (input[1] >
744.093809232709) {
                                                        if (input[0] <=
105.862578616352) {
                                                            return 1;
                                                        }
                                                        else if (input[0] >
105.862578616352) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[2] >
0.373105625717566) {
                                                    if (input[0] <= 94.0820707070707)
{
                                                        return 1;
                                                    }
                                                    else if (input[0] >
94.0820707070707) {
                                                        if (input[0] <=
213.122222222222) {
                                                            return 0;
                                                        }
                                                        else if (input[0] >
213.122222222222) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                            }
                                            else if (input[2] > 0.37505152514427) {
```

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```
                                            return 0;
                                        }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                        }
                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                }
            else if (input[2] > 0.437668918918919) {
                if (input[0] <= 47.4012195121951) {
                    return 1;
                }
                else if (input[0] > 47.4012195121951) {
                    return 0;
                }
                else throw new ArgumentException("input",
"Unexpected value at position 0.");
            }
            else throw new ArgumentException("input", "Unexpected
value at position 2.");
        }
        else if (input[2] > 0.440108695652174) {
            if (input[1] <= 2407.10104018768) {
                if (input[3] <= 0.517044) {
                    if (input[0] <= 54.8918128654971) {
                        if (input[3] <= 0.5002395) {
                            if (input[0] <= 34.2583333333333) {
                                if (input[0] <= 5.94050051072523)
{
                                    if (input[1] <=
443.556175428356) {
                                        return 0;
                                    }
                                    else if (input[1] >
443.556175428356) {
                                        if (input[1] <=
443.752173928902) {
                                            return 1;
                                        }
                                        else if (input[1] >
443.752173928902) {
                                            return 0;
                                        }
```

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```
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                            }
                                                            else if (input[0] >
5.94050051072523) {
                                                                if (input[0] <= 7.04) {
                                                                    if (input[3] <= 0.171165)
{
                                                                        return 0;
                                                                    }
                                                                    else if (input[3] >
0.171165) {
                                                                        return 1;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                                }
                                                                else if (input[0] > 7.04) {
                                                                    if (input[0] <=
30.5086206896552) {
                                                                        return 0;
                                                                    }
                                                                    else if (input[0] >
30.5086206896552) {
                                                                        return 0;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[0] > 34.2583333333333)
{
                                                            if (input[1] <= 842.677649338781)
{
                                                                if (input[1] <=
842.578977358391) {
                                                                    if (input[0] <=
40.0178571428571) {
```

```
                                                    return 0;
                                                }
                                                else if (input[0] >
40.0178571428571) {

                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[1] >
842.578977358391) {

                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[1] >
842.677649338781) {

                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else if (input[3] > 0.5002395) {
                                    if (input[0] <= 4.50641025641026) {
                                        if (input[1] <= 318.244612765303)
{

                                            if (input[1] <=
315.741046204277) {

                                                if (input[1] <=
312.760141214438) {

                                                    return 0;
                                                }
                                                else if (input[1] >
312.760141214438) {

                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[1] >
315.741046204277) {

                                                return 0;
```

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```
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else if (input[1] >
318.244612765303) {
                                                            if (input[2] <=
0.500656167979003) {
                                                                return 1;
                                                            }
                                                            else if (input[2] >
0.500656167979003) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[0] > 4.50641025641026)
{
                                                        if (input[3] <= 0.516108) {
                                                            if (input[0] <= 18.775) {
                                                                if (input[0] <=
18.2916666666667) {
                                                                    return 0;
                                                                }
                                                                else if (input[0] >
18.2916666666667) {
                                                                    return 1;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
                                                            else if (input[0] > 18.775) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[3] > 0.516108) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
```

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```
                                                    }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                else if (input[0] > 54.8918128654971) {
                                    if (input[2] <= 0.500656167979003) {
                                        if (input[2] <= 0.454760878931495) {
                                            return 0;
                                        }
                                        else if (input[2] >
0.454760878931495) {
                                            if (input[0] <= 208.527777777778)
{
                                                if (input[0] <=
81.0416666666667) {
                                                    if (input[0] <=
66.0108695652174) {
                                                        return 0;
                                                    }
                                                    else if (input[0] >
66.0108695652174) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else if (input[0] >
81.0416666666667) {
                                                    if (input[1] <=
1884.05769712131) {
                                                        return 0;
                                                    }
                                                    else if (input[1] >
1884.05769712131) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
```

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```
                                                else if (input[0] >
208.527777777778) {

                                                    if (input[1] <=
2324.52753445519) {

                                                        if (input[0] <=
267.041666666667) {

                                                            return 0;
                                                        }
                                                        else if (input[0] >
267.041666666667) {

                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                                    }
                                                    else if (input[1] >
2324.52753445519) {

                                                        if (input[1] <=
2396.3755051372) {

                                                            return 0;
                                                        }
                                                        else if (input[1] >
2396.3755051372) {

                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");

                                        }
                                        else if (input[2] > 0.500656167979003) {
                                            if (input[1] <= 1232.06815604948) {
                                                return 1;
                                            }
                                            else if (input[1] > 1232.06815604948)
{

                                                if (input[3] <= 0.2906765) {
                                                    if (input[1] <=
2107.45428800563) {
```

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```
                                                      return 1;
                                                  }
                                                  else if (input[1] >
2107.45428800563) {
                                                      return 0;
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                              }
                                              else if (input[3] > 0.2906765) {
                                                  return 0;
                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                          }
                                          else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                      }
                                      else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                  }
                                  else throw new ArgumentException("input",
"Unexpected value at position 0.");
                              }
                              else if (input[3] > 0.517044) {
                                  if (input[2] <= 0.585417969564311) {
                                      if (input[0] <= 18.775) {
                                          if (input[0] <= 18.5584415584416) {
                                              if (input[1] <= 424.831171907884)
{
                                                  if (input[1] <=
250.969223378241) {
                                                      if (input[1] <=
249.740867015479) {
                                                          return 0;
                                                      }
                                                      else if (input[1] >
249.740867015479) {
                                                          return 1;
                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                  }
                                                  else if (input[1] >
250.969223378241) {
                                                      if (input[0] <= 0.0625) {
```

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```
                                                    return 0;
                                                }
                                            else if (input[0] >
0.0625) {

                                                    return 0;
                                                }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                        }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                }
                            else if (input[1] >
424.831171907884) {

                                if (input[0] <=
3.0025641025641) {

                                    return 1;
                                }
                                else if (input[0] >
3.0025641025641) {

                                    if (input[3] <=
0.9349845) {

                                        return 0;
                                    }
                                    else if (input[3] >
0.9349845) {

                                        return 1;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");

                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 1.");

                        }
                    else if (input[0] > 18.5584415584416)
{

                        if (input[1] <= 364.239522968785)
{

                            if (input[1] <=
256.600711324021) {

                                return 0;
                            }
```

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```
                                                      else if (input[1] >
256.600711324021) {
                                                          if (input[1] <=
342.796079982856) {

                                                              return 1;
                                                          }
                                                          else if (input[1] >
342.796079982856) {

                                                              return 0;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                  }
                                                  else if (input[1] >
364.239522968785) {

                                                      return 1;
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                          }
                                          else if (input[0] > 18.775) {
                                              if (input[1] <= 1291.65072026846) {
                                                  if (input[3] <= 1.5185725) {
                                                      if (input[3] <= 1.502681) {
                                                          if (input[2] <=
0.571477637938225) {

                                                              return 0;
                                                          }
                                                          else if (input[2] >
0.571477637938225) {

                                                              return 1;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 2.");

                                                      }
                                                      else if (input[3] > 1.502681)
{

                                                          if (input[2] <=
0.55580981439105) {

                                                              return 0;
```

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```
                                                           }
                                                           else if (input[2] >
0.55580981439105) {

                                                               return 1;
                                                           }
                                                           else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                       }
                                                       else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                   }
                                                   else if (input[3] > 1.5185725) {
                                                       if (input[0] <=
40.2958333333333) {

                                                           if (input[1] <=
529.693051951958) {

                                                               return 0;
                                                           }
                                                           else if (input[1] >
529.693051951958) {

                                                               return 1;
                                                           }
                                                           else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                       }
                                                       else if (input[0] >
40.2958333333333) {

                                                           if (input[0] <=
59.3774928774929) {

                                                               return 0;
                                                           }
                                                           else if (input[0] >
59.3774928774929) {

                                                               return 0;
                                                           }
                                                           else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                       }
                                                       else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                   }
                                                   else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                               }
                                               else if (input[1] > 1291.65072026846)
{
```

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```
                                                        if (input[2] <=
0.576976944624003) {
                                                            if (input[3] <= 0.6770055) {
                                                                return 0;
                                                            }
                                                            else if (input[3] >
0.6770055) {
                                                                if (input[3] <=
0.6777465) {
                                                                    return 0;
                                                                }
                                                                else if (input[3] >
0.6777465) {
                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                        }
                                                        else if (input[2] >
0.576976944624003) {
                                                            if (input[3] <= 3.059768) {
                                                                return 0;
                                                            }
                                                            else if (input[3] > 3.059768)
{
                                                                if (input[0] <=
48.6776927282668) {
                                                                    return 1;
                                                                }
                                                                else if (input[0] >
48.6776927282668) {
                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                    }
```

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```
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                            else if (input[2] > 0.585417969564311) {
                                if (input[0] <= 58.4833333333333) {
                                    if (input[1] <= 570.211697747423) {
                                        if (input[3] <= 6.2444935) {
                                            if (input[0] <= 6.6125) {
                                                if (input[0] <=
4.63076923076923) {

                                                    return 0;
                                                }
                                                else if (input[0] >
4.63076923076923) {

                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[0] > 6.6125) {
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else if (input[3] > 6.2444935) {
                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else if (input[1] > 570.211697747423)
{
                                        if (input[3] <= 1.31214) {
                                            if (input[0] <=
15.3229166666667) {

                                                return 1;
                                            }
                                            else if (input[0] >
15.3229166666667) {

                                                return 0;
                                            }
```

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```
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else if (input[3] > 1.31214) {
                                            if (input[0] <=
34.9567561983471) {
                                                return 0;
                                            }
                                            else if (input[0] >
34.9567561983471) {
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                }
                                else if (input[0] > 58.4833333333333) {
                                    if (input[2] <= 0.62662447257384) {
                                        if (input[3] <= 6.478945) {
                                            if (input[1] <=
1671.57813485634) {
                                                if (input[0] <=
60.8166666666667) {
                                                    return 0;
                                                }
                                                else if (input[0] >
60.8166666666667) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[1] >
1671.57813485634) {
                                                if (input[2] <=
0.586252968499353) {
                                                    return 1;
                                                }
                                                else if (input[2] >
0.586252968499353) {
                                                    return 0;
```

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```
                                                      }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                              }
                                          else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                  }
                              else if (input[3] > 6.478945) {
                                  if (input[3] <= 6.5100275) {
                                      return 1;
                                  }
                                  else if (input[3] >
6.5100275) {
                                      if (input[0] <=
116.06036036036) {
                                          return 0;
                                      }
                                      else if (input[0] >
116.06036036036) {
                                          return 0;
                                      }
                                      else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                  }
                              else throw new
ArgumentException("input", "Unexpected value at position 3.");
                          }
                      else throw new
ArgumentException("input", "Unexpected value at position 3.");
                  }
              else if (input[2] > 0.62662447257384)
{
              if (input[2] <= 0.62860106698281)
{
                  if (input[3] <= 10.774946) {
                      return 1;
                  }
                  else if (input[3] >
10.774946) {
                      if (input[0] <=
87.7923076923077) {
                          return 1;
                      }
                      else if (input[0] >
87.7923076923077) {
                          return 0;
```

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```
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                            }
                                                            else if (input[2] >
0.62860106698281) {
                                                                if (input[0] <=
93.025641025641) {
                                                                    if (input[3] <=
9.6429605) {
                                                                        return 0;
                                                                    }
                                                                    else if (input[3] >
9.6429605) {
                                                                        return 1;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                                }
                                                                else if (input[0] >
93.025641025641) {
                                                                    if (input[0] <=
233.295783926219) {
                                                                        return 0;
                                                                    }
                                                                    else if (input[0] >
233.295783926219) {
                                                                        return 0;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
```

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```
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                        }
                                        else if (input[1] > 2407.10104018768) {
                                            if (input[2] <= 0.593708773087071) {
                                                if (input[3] <= 0.2345665) {
                                                    if (input[1] <= 3655.10049468835) {
                                                        if (input[0] <= 168.03125) {
                                                            return 0;
                                                        }
                                                        else if (input[0] > 168.03125) {
                                                            if (input[0] <= 261.033333333333)
{
                                                                if (input[0] <=
207.038461538462) {
                                                                    if (input[3] <=
0.1637065) {
                                                                        return 1;
                                                                    }
                                                                    else if (input[3] >
0.1637065) {
                                                                        return 0;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                                }
                                                                else if (input[0] >
207.038461538462) {
                                                                    if (input[1] <=
2532.60309126504) {
                                                                        return 0;
                                                                    }
                                                                    else if (input[1] >
2532.60309126504) {
                                                                        return 0;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
```

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```
                                                            else if (input[0] >
261.033333333333) {

                                                                if (input[0] <=
262.011111111111) {

                                                                    return 1;
                                                                }
                                                                else if (input[0] >
262.011111111111) {

                                                                    if (input[0] <=
267.535714285714) {

                                                                        return 0;
                                                                    }
                                                                    else if (input[0] >
267.535714285714) {

                                                                        return 1;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[1] > 3655.10049468835) {
                                                        return 0;
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                                }
                                                else if (input[3] > 0.2345665) {
                                                    if (input[2] <= 0.576976944624003) {
                                                        if (input[0] <= 273.983870967742) {
                                                            if (input[3] <= 1.380429) {
                                                                if (input[2] <=
0.535898379970545) {

                                                                    if (input[3] <=
0.3057205) {

                                                                        return 0;
                                                                    }
                                                                    else if (input[3] >
0.3057205) {
```

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```
                                                    return 0;
                                                }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                        }
                                    else if (input[2] >
0.535898379970545) {

                                            if (input[3] <= 0.387346)
{

                                                return 0;
                                            }
                                            else if (input[3] >
0.387346) {

                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                        }
                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");

                                }
                            else if (input[3] > 1.380429) {
                                if (input[3] <= 1.3816865) {
                                    return 1;
                                }
                                else if (input[3] >
1.3816865) {

                                    return 0;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 3.");

                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 3.");

                        }
                    else if (input[0] > 273.983870967742)
{

                        if (input[0] <= 274.041666666667)
{

                            return 1;
                        }
                        else if (input[0] >
274.041666666667) {

                            if (input[3] <= 0.245532) {
                                if (input[1] <=
2492.58805270858) {
```

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```
                                        return 1;
                                    }
                                    else if (input[1] >
2492.58805270858) {
                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                }
                                else if (input[3] > 0.245532)
{
                                    return 0;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                    }
                    else if (input[2] > 0.576976944624003) {
                        if (input[2] <= 0.578981738193983) {
                            if (input[0] <= 78.0585738539898)
{
                                return 1;
                            }
                            else if (input[0] >
78.0585738539898) {
                                return 0;
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                        }
                        else if (input[2] >
0.578981738193983) {
                            return 0;
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 2.");
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                }
```

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```
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                }
                                else if (input[2] > 0.593708773087071) {
                                    if (input[2] <= 0.594765651727677) {
                                        return 1;
                                    }
                                    else if (input[2] > 0.594765651727677) {
                                        if (input[1] <= 12691.2032905674) {
                                            if (input[2] <= 0.625027765437583) {
                                                if (input[3] <= 0.347818) {
                                                    if (input[1] <=
2481.97652744282) {

                                                        return 1;
                                                    }
                                                    else if (input[1] >
2481.97652744282) {

                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[3] > 0.347818) {
                                                    if (input[3] <= 0.3511685) {
                                                        return 1;
                                                    }
                                                    else if (input[3] >
0.3511685) {

                                                        if (input[3] <=
1.6038235) {

                                                            return 0;
                                                        }
                                                        else if (input[3] >
1.6038235) {

                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
```

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```
                                            else if (input[2] >
0.625027765437583) {
                                                if (input[1] <= 3017.05113847755)
{
                                                    if (input[1] <=
2424.67380275811) {
                                                        return 0;
                                                    }
                                                    else if (input[1] >
2424.67380275811) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[1] >
3017.05113847755) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
                                        else if (input[1] > 12691.2032905674) {
                                            if (input[2] <= 0.600170068027211) {
                                                return 0;
                                            }
                                            else if (input[2] >
0.600170068027211) {
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 2.");
                            }
```

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```
                                                else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                            }
                                        else throw new ArgumentException("input", "Unexpected
value at position 2.");
                                    }
                                else throw new ArgumentException("input", "Unexpected value
at position 3.");
                            }
                        else throw new ArgumentException("input", "Unexpected value at
position 3.");
                    }
                else if (input[0] > 281.076923076923) {
                    if (input[2] <= 0.550167785234899) {
                        if (input[2] <= 0.350379332145526) {
                            if (input[0] <= 711.115840517241) {
                                if (input[0] <= 353.115555555556) {
                                    return 0;
                                }
                                else if (input[0] > 353.115555555556) {
                                    if (input[0] <= 413.670673076923) {
                                        return 1;
                                    }
                                    else if (input[0] > 413.670673076923) {
                                        if (input[2] <= 0.341795166858458) {
                                            if (input[0] <= 450.936688311688) {
                                                return 0;
                                            }
                                            else if (input[0] > 450.936688311688) {
                                                if (input[1] <= 3955.23244377134) {
                                                    if (input[1] <= 3336.20428785715)
{
                                                        return 1;
                                                    }
                                                    else if (input[1] >
3336.20428785715) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[1] > 3955.23244377134)
{
                                                    return 1;
                                                }
```

```
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                            else if (input[2] > 0.341795166858458) {
                                if (input[3] <= 19.285621) {
                                    if (input[0] <= 686.765274365274) {
                                        if (input[1] <= 3126.88703364395)
{
                                                if (input[1] <=
3071.66847920042) {

                                                    return 0;
                                                }
                                                else if (input[1] >
3071.66847920042) {

                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[1] >
3126.88703364395) {

                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else if (input[0] > 686.765274365274)
{

                                        if (input[2] <=
0.342860604382291) {

                                            return 0;
                                        }
                                        else if (input[2] >
0.342860604382291) {

                                            if (input[0] <=
703.485115236876) {

                                                if (input[0] <=
695.575369207265) {

                                                    return 1;
                                                }
                                                else if (input[0] >
695.575369207265) {

                                                    return 0;
```

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```
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[0] >
703.485115236876) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else if (input[3] > 19.285621) {
                                            return 1;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 0.");
                        }
                        else if (input[0] > 711.115840517241) {
                            return 0;
                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 0.");
                    }
                    else if (input[2] > 0.350379332145526) {
                        if (input[0] <= 692.305691444935) {
                            if (input[2] <= 0.389168909654157) {
                                if (input[0] <= 691.745967741935) {
                                    if (input[3] <= 1.683634) {
                                        return 0;
                                    }
                                    else if (input[3] > 1.683634) {
```

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```
                                          if (input[1] <= 13185.2152165893) {
                                              if (input[1] <= 2517.02402226635) {
                                                  if (input[1] <= 834.661514323544)
{
                                                      return 0;
                                                  }
                                                  else if (input[1] >
834.661514323544) {
                                                      if (input[1] <=
866.532529651245) {
                                                          if (input[0] <=
393.96875) {
                                                              return 0;
                                                          }
                                                          else if (input[0] >
393.96875) {
                                                              return 1;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                      }
                                                      else if (input[1] >
866.532529651245) {
                                                          if (input[1] <=
2463.78666045787) {
                                                              return 0;
                                                          }
                                                          else if (input[1] >
2463.78666045787) {
                                                              return 1;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                              }
                                              else if (input[1] > 2517.02402226635)
{
                                                  if (input[1] <= 7486.54020592668)
{
                                                      return 0;
                                                  }
```

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```
                                                    else if (input[1] >
7486.54020592668) {
                                                        if (input[2] <=
0.38801892178452) {
                                                            if (input[1] <=
7653.5861297817) {
                                                                return 0;
                                                            }
                                                            else if (input[1] >
7653.5861297817) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else if (input[2] >
0.38801892178452) {
                                                            if (input[0] <=
640.636842105263) {
                                                                return 0;
                                                            }
                                                            else if (input[0] >
640.636842105263) {
                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[1] > 13185.2152165893) {
                                                if (input[3] <= 13.695094) {
                                                    if (input[2] <=
0.388085794802213) {
                                                        if (input[0] <=
540.436507936508) {
                                                            return 0;
                                                        }
```

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```
                                        else if (input[0] >
540.436507936508) {

                                            if (input[2] <=
0.369761409386906) {

                                                return 1;
                                            }
                                            else if (input[2] >
0.369761409386906) {

                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");

                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                    }
                                    else if (input[2] >
0.388085794802213) {

                                        return 1;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");

                                }
                                else if (input[3] > 13.695094) {
                                    return 1;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 3.");

                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 1.");

                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 3.");

                    }
                    else if (input[0] > 691.745967741935) {
                        return 1;
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 0.");

                }
                else if (input[2] > 0.389168909654157) {
                    if (input[2] <= 0.519842519685039) {
                        if (input[2] <= 0.400143472022956) {
                            if (input[1] <= 465.265464814115) {
                                if (input[1] <= 409.174434224248) {
```

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```
                                                      return 0;
                                                  }
                                              else if (input[1] > 409.174434224248)
{
                                                      return 1;
                                                  }
                                              else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                          }
                                      else if (input[1] > 465.265464814115) {
                                          if (input[0] <= 498.536967418546) {
                                              return 0;
                                          }
                                          else if (input[0] > 498.536967418546)
{
                                              if (input[0] <= 652.402380952381)
{
                                                  if (input[0] <=
501.121428571429) {
                                                      return 1;
                                                  }
                                                  else if (input[0] >
501.121428571429) {
                                                      if (input[0] <=
652.394444444444) {
                                                          return 0;
                                                      }
                                                      else if (input[0] >
652.394444444444) {
                                                          return 1;
                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                              }
                                              else if (input[0] >
652.402380952381) {
                                                  if (input[3] <= 0.9411365) {
                                                      if (input[3] <=
0.9342965) {
                                                          return 0;
                                                      }
                                                      else if (input[3] >
0.9342965) {
```

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```
                                                        return 1;
                                                    }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                        else if (input[3] >
0.9411365) {

                                                return 0;
                                            }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                            }
                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                    }
                else if (input[2] > 0.400143472022956) {
                    if (input[3] <= 0.9852075) {
                        if (input[0] <= 283.022727272727) {
                            if (input[1] <= 4812.49302895834)
{

                                    if (input[3] <= 0.137655) {
                                        return 1;
                                    }
                                    else if (input[3] > 0.137655)
{

                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
                            else if (input[1] >
4812.49302895834) {

                                    return 0;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                            }
                        else if (input[0] > 283.022727272727)
{
```

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```
                                                 if (input[2] <=
0.411852502194908) {
                                                     if (input[1] <=
11794.4084526699) {
                                                         return 1;
                                                     }
                                                     else if (input[1] >
11794.4084526699) {
                                                         if (input[0] <=
543.649074074074) {
                                                             return 0;
                                                         }
                                                         else if (input[0] >
543.649074074074) {
                                                             return 0;
                                                         }
                                                         else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                     }
                                                     else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                 }
                                                 else if (input[2] >
0.411852502194908) {
                                                     return 0;
                                                 }
                                                 else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                             }
                                             else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                         }
                                         else if (input[3] > 0.9852075) {
                                             if (input[3] <= 0.986179) {
                                             return 1;
                                             }
                                             else if (input[3] > 0.986179) {
                                                 if (input[1] <= 6772.03091015072)
{
                                                     if (input[0] <=
592.494897959184) {
                                                         if (input[0] <=
592.482993197279) {
                                                             return 0;
                                                         }
```

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```
                                    else if (input[0] >
592.482993197279) {

                                        return 1;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                }
                                else if (input[0] >
592.494897959184) {

                                    return 0;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");

                            }
                            else if (input[1] >
6772.03091015072) {

                                if (input[1] <=
6773.38246433874) {

                                    return 1;
                                }
                                else if (input[1] >
6773.38246433874) {

                                    if (input[3] <=
12.4739445) {

                                        return 0;
                                    }
                                    else if (input[3] >
12.4739445) {

                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 1.");

                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 1.");

                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 3.");

                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 3.");

                }
```

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```
                                              else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                          }
                                          else if (input[2] > 0.519842519685039) {
                                              if (input[1] <= 3503.90730783578) {
                                                  return 0;
                                              }
                                              else if (input[1] > 3503.90730783578) {
                                                  if (input[1] <= 67070.1630357905) {
                                                      if (input[2] <= 0.520920868347339) {
                                                          if (input[0] <= 297.589523809524)
{
                                                              return 1;
                                                          }
                                                          else if (input[0] >
297.589523809524) {
                                                              if (input[2] <=
0.520497020929877) {
                                                                  return 0;
                                                              }
                                                              else if (input[2] >
0.520497020929877) {
                                                                  if (input[1] <=
5228.33865493416) {
                                                                      return 0;
                                                                  }
                                                                  else if (input[1] >
5228.33865493416) {
                                                                      return 1;
                                                                  }
                                                                  else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                              }
                                                              else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                      }
                                                      else if (input[2] >
0.520920868347339) {
                                                          if (input[3] <= 1.046944) {
                                                              return 0;
                                                          }
                                                          else if (input[3] > 1.046944) {
                                                              if (input[3] <= 1.0837575) {
```

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```
                                    return 1;
                                }
                                else if (input[3] >
1.0837575) {

                                    if (input[1] <=
7315.70447219987) {

                                        return 0;
                                    }
                                    else if (input[1] >
7315.70447219987) {

                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 3.");

                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 3.");

                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 2.");

                    }
                    else if (input[1] > 67070.1630357905) {
                        if (input[2] <= 0.538838612368024) {
                            return 0;
                        }
                        else if (input[2] >
0.538838612368024) {

                            return 1;
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 2.");

                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 1.");

                }
                else throw new ArgumentException("input",
"Unexpected value at position 1.");

            }
            else throw new ArgumentException("input",
"Unexpected value at position 2.");

        }
        else throw new ArgumentException("input", "Unexpected
value at position 2.");
```

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```
                                    }
                      else if (input[0] > 692.305691444935) {
                          if (input[2] <= 0.489556064572426) {
                              if (input[2] <= 0.358625821018062) {
                                  if (input[2] <= 0.358608987361523) {
                                      if (input[0] <= 800.603284832451) {
                                          if (input[0] <= 800.571428571429) {
                                              return 0;
                                          }
                                          else if (input[0] > 800.571428571429)
{

                                              return 1;
                                          }
                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                      }
                                      else if (input[0] > 800.603284832451) {
                                          return 0;
                                      }
                                      else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                  }
                                  else if (input[2] > 0.358608987361523) {
                                      if (input[1] <= 31335.2542741509) {
                                          return 0;
                                      }
                                      else if (input[1] > 31335.2542741509) {
                                          return 1;
                                      }
                                      else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                  }
                                  else throw new ArgumentException("input",
"Unexpected value at position 2.");
                              }
                              else if (input[2] > 0.358625821018062) {
                                  if (input[3] <= 10.570744) {
                                      if (input[2] <= 0.40812575030012) {
                                          return 0;
                                      }
                                      else if (input[2] > 0.40812575030012) {
                                          if (input[2] <= 0.408187912846298) {
                                              if (input[3] <= 1.7817565) {
                                                  if (input[0] <=
728.090816326531) {

                                                      return 1;
```

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```
                                                        }
                                                        else if (input[0] >
728.090816326531) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[3] > 1.7817565) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else if (input[2] >
0.408187912846298) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                        }
                                        else if (input[3] > 10.570744) {
                                            if (input[3] <= 10.571227) {
                                                return 1;
                                            }
                                            else if (input[3] > 10.571227) {
                                                if (input[1] <= 39841.4930098767) {
                                                    if (input[1] <= 3239.13285926306)
{
                                                        if (input[1] <=
3238.32830919334) {
                                                            return 0;
                                                        }
                                                        else if (input[1] >
3238.32830919334) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[1] >
3239.13285926306) {
                                                        return 0;
```

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```
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[1] > 39841.4930098767)
{
                                                        if (input[1] <= 39878.0609095011)
{
                                                            return 1;
                                                        }
                                                        else if (input[1] >
39878.0609095011) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                    }
                                    else if (input[2] > 0.489556064572426) {
                                        if (input[2] <= 0.489663461538462) {
                                            return 1;
                                        }
                                        else if (input[2] > 0.489663461538462) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 2.");
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 0.");
                            }
```

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```
                                else throw new ArgumentException("input", "Unexpected value
at position 2.");
                    }
                    else if (input[2] > 0.550167785234899) {
                        if (input[3] <= 55.4718945) {
                            if (input[0] <= 741.957694026516) {
                                if (input[2] <= 0.62615823235923) {
                                    if (input[1] <= 4043.85256023404) {
                                        if (input[0] <= 477.826611226611) {
                                            if (input[1] <= 3234.50952345573) {
                                                if (input[0] <= 284.370454545455) {
                                                    if (input[0] <= 284.214439655172)
{

                                                        return 0;
                                                    }
                                                    else if (input[0] >
284.214439655172) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else if (input[0] > 284.370454545455)
{

                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[1] > 3234.50952345573) {
                                                if (input[1] <= 3243.59024175543) {
                                                    return 1;
                                                }
                                                else if (input[1] > 3243.59024175543)
{

                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else if (input[0] > 477.826611226611) {
                                            if (input[0] <= 531.372043010753) {
                                                if (input[2] <= 0.575786657360554) {
```

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```
                                                    return 0;
                                                }
                                                else if (input[2] >
0.575786657360554) {

                                                    if (input[2] <=
0.615568202680375) {

                                                        if (input[3] <= 12.0705745) {
                                                            return 0;
                                                        }
                                                        else if (input[3] >
12.0705745) {

                                                            if (input[3] <=
38.9296355) {

                                                                return 1;
                                                            }
                                                            else if (input[3] >
38.9296355) {

                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                    }
                                                    else if (input[2] >
0.615568202680375) {

                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");

                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");

                                            }
                                            else if (input[0] > 531.372043010753) {
                                                if (input[2] <= 0.615568202680375) {
                                                    if (input[1] <= 957.48662572762)
{

                                                        if (input[1] <=
751.128239196095) {

                                                            return 0;
                                                        }
                                                        else if (input[1] >
751.128239196095) {
```

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```
                                                 if (input[3] <=
22.144222) {

                                                     return 1;
                                                 }
                                                 else if (input[3] >
22.144222) {

                                                     return 0;
                                                 }
                                                 else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                             }
                                             else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                         }
                                         else if (input[1] >
957.48662572762) {

                                             if (input[3] <= 4.404688) {
                                                 if (input[3] <=
3.9355255) {

                                                     return 0;
                                                 }
                                                 else if (input[3] >
3.9355255) {

                                                     return 1;
                                                 }
                                                 else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                             }
                                             else if (input[3] > 4.404688)
{

                                                 return 0;
                                             }
                                             else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                         }
                                         else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                     }
                                     else if (input[2] >
0.615568202680375) {

                                         if (input[2] <=
0.617104388297872) {

                                             return 1;
                                         }
                                         else if (input[2] >
0.617104388297872) {
```

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```
                                                    if (input[0] <=
581.834037162162) {
                                                        if (input[0] <=
577.838416612589) {
                                                            return 0;
                                                        }
                                                        else if (input[0] >
577.838416612589) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[0] >
581.834037162162) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[1] > 4043.85256023404) {
                                    if (input[3] <= 1.0423125) {
                                        if (input[2] <= 0.583417678812416) {
                                            if (input[0] <= 565.334331337325) {
                                                return 0;
                                            }
                                            else if (input[0] > 565.334331337325)
{
                                                if (input[0] <= 582.651215805471)
{
                                                    return 1;
                                                }
                                                else if (input[0] >
582.651215805471) {
```

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```
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else if (input[2] > 0.583417678812416) {
                                            if (input[2] <= 0.585417969564311) {
                                                return 1;
                                            }
                                            else if (input[2] >
0.585417969564311) {
                                                if (input[1] <= 6751.97721023589)
{
                                                    return 0;
                                                }
                                                else if (input[1] >
6751.97721023589) {
                                                    if (input[1] <=
7022.13542026034) {
                                                        return 1;
                                                    }
                                                    else if (input[1] >
7022.13542026034) {
                                                        if (input[0] <=
678.964896214896) {
                                                            return 0;
                                                        }
                                                        else if (input[0] >
678.964896214896) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
```

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```
                                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                                }
                                                else if (input[3] > 1.0423125) {
                                                    if (input[0] <= 638.671171171171) {
                                                        if (input[1] <= 7355.12796192601) {
                                                            if (input[3] <= 3.4493025) {
                                                                if (input[0] <=
492.81615990991) {
                                                                    if (input[3] <=
1.1628695) {
                                                                        return 0;
                                                                    }
                                                                    else if (input[3] >
1.1628695) {
                                                                        return 0;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                                }
                                                                else if (input[0] >
492.81615990991) {
                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
                                                            else if (input[3] > 3.4493025) {
                                                                if (input[2] <=
0.571477637938225) {
                                                                    if (input[1] <=
5179.3118271187) {
                                                                        return 0;
                                                                    }
                                                                    else if (input[1] >
5179.3118271187) {
                                                                        return 0;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                }
                                                                else if (input[2] >
0.571477637938225) {
                                                                    if (input[0] <=
316.193722943723) {
                                                                        return 0;
```

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```
                                                    }
                                                    else if (input[0] >
316.193722943723) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else if (input[1] > 7355.12796192601)
{
                                            if (input[0] <= 527.041848523748)
{
                                                if (input[1] <=
23058.1014732512) {
                                                    if (input[3] <= 1.568575)
{
                                                        return 1;
                                                    }
                                                    else if (input[3] >
1.568575) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else if (input[1] >
23058.1014732512) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[0] >
527.041848523748) {
                                                if (input[0] <=
630.054771074027) {
                                                    if (input[1] <=
40703.8630487274) {
                                                        return 1;
                                                    }
```

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```
                                                    else if (input[1] >
40703.8630487274) {

                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                }
                                                else if (input[0] >
630.054771074027) {

                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                    }
                                    else if (input[0] > 638.671171171171) {
                                        if (input[2] <= 0.614295732318173) {
                                            if (input[0] <= 651.493885394829)
{

                                                if (input[0] <=
650.085144927536) {

                                                    return 0;
                                                }
                                                else if (input[0] >
650.085144927536) {

                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                            }
                                            else if (input[0] >
651.493885394829) {

                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                        }
                                        else if (input[2] >
0.614295732318173) {

                                            if (input[1] <= 11080.2125436498)
{
```

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```
                                                return 0;
                                            }
                                            else if (input[1] >
11080.2125436498) {
                                                if (input[0] <=
730.023181818182) {
                                                    if (input[1] <=
49877.8221477061) {
                                                        return 1;
                                                    }
                                                    else if (input[1] >
49877.8221477061) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[0] >
730.023181818182) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                        }
                        else if (input[2] > 0.62615823235923) {
                            if (input[1] <= 2188.15154212126) {
                                if (input[2] <= 0.634197906461094) {
                                    return 0;
                                }
                                else if (input[2] > 0.634197906461094) {
                                    if (input[2] <= 0.634960317460317) {
```

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```
                                                            return 1;
                                                        }
                                                        else if (input[2] > 0.634960317460317) {
                                                            if (input[1] <= 1045.12489592382) {
                                                                if (input[1] <= 632.715486425408)
{

                                                                    return 0;
                                                                }
                                                                else if (input[1] >
632.715486425408) {

                                                                    return 1;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                            }
                                                            else if (input[1] > 1045.12489592382)
{

                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                                }
                                                else if (input[1] > 2188.15154212126) {
                                                    if (input[3] <= 22.725055) {
                                                        if (input[3] <= 1.5585415) {
                                                            if (input[0] <= 489.102913533835) {
                                                                if (input[1] <= 4052.85604297956)
{

                                                                    return 0;
                                                                }
                                                                else if (input[1] >
4052.85604297956) {

                                                                    return 1;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                            }
                                                            else if (input[0] > 489.102913533835)
{

                                                                return 0;
```

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```
                                                  }
                                              else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                          }
                                      else if (input[3] > 1.5585415) {
                                          if (input[1] <= 8240.37858124839) {
                                              if (input[0] <= 451.112394957983)
{
                                                  return 1;
                                              }
                                              else if (input[0] >
451.112394957983) {
                                                  if (input[0] <=
596.795172863666) {
                                                      if (input[2] <=
0.629555850671389) {
                                                          return 0;
                                                      }
                                                      else if (input[2] >
0.629555850671389) {
                                                          return 1;
                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                  }
                                                  else if (input[0] >
596.795172863666) {
                                                      return 0;
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                          }
                                          else if (input[1] > 8240.37858124839)
{
                                              return 1;
                                          }
                                          else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                      }
                                      else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                  }
                              else if (input[3] > 22.725055) {
```

```
                                                    return 0;
                                                }
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                        }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                        else throw new ArgumentException("input", "Unexpected
value at position 2.");
                    }
                else if (input[0] > 741.957694026516) {
                    if (input[1] <= 168670.629753598) {
                        if (input[1] <= 41915.8855045696) {
                            return 0;
                        }
                        else if (input[1] > 41915.8855045696) {
                            if (input[1] <= 42008.7896838699) {
                                return 1;
                            }
                            else if (input[1] > 42008.7896838699) {
                                if (input[2] <= 0.611998982805501) {
                                    if (input[2] <= 0.605479566305254) {
                                        return 0;
                                    }
                                    else if (input[2] >
0.605479566305254) {

                                        return 1;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                }
                                else if (input[2] > 0.611998982805501) {
                                    return 0;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 2.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                    }
                    else if (input[1] > 168670.629753598) {
                        if (input[3] <= 0.1880115) {
```

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```
                                             return 0;
                                         }
                                         else if (input[3] > 0.1880115) {
                                             return 1;
                                         }
                                         else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                     }
                                     else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                 }
                                 else throw new ArgumentException("input", "Unexpected
value at position 0.");
                             }
                             else if (input[3] > 55.4718945) {
                                 return 0;
                             }
                             else throw new ArgumentException("input", "Unexpected value
at position 3.");
                         }
                         else throw new ArgumentException("input", "Unexpected value at
position 2.");
                     }
                     else throw new ArgumentException("input", "Unexpected value at
position 0.");
                 }
                 else throw new ArgumentException("input", "Unexpected value at position
2.");
             }
             else if (input[2] > 0.644721362229102) {
                 if (input[3] <= 0.2191735) {
                     if (input[1] <= 24118.0989380597) {
                         if (input[0] <= 54.0151515151515) {
                             if (input[0] <= 11.55) {
                                 if (input[1] <= 598.303505269482) {
                                     if (input[3] <= 0.202689) {
                                         if (input[0] <= 0.0625) {
                                             if (input[1] <= 597.627419279395) {
                                                 return 1;
                                             }
                                             else if (input[1] > 597.627419279395) {
                                                 if (input[1] <= 597.686130283061) {
                                                     return 0;
                                                 }
                                                 else if (input[1] > 597.686130283061) {
                                                     return 1;
```

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```
                                        }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                        }
                    else if (input[0] > 0.0625) {
                        return 0;
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                }
            else if (input[3] > 0.202689) {
                return 0;
            }
            else throw new ArgumentException("input", "Unexpected
value at position 3.");
        }
    else if (input[1] > 598.303505269482) {
        if (input[1] <= 5265.94561618826) {
            if (input[0] <= 8.33974358974359) {
                if (input[0] <= 1.01666666666667) {
                    if (input[1] <= 796.477628836896) {
                        if (input[2] <= 0.666854143232096) {
                            if (input[1] <= 737.522930706277)
{
                                if (input[3] <= 0.2063425) {
                                    if (input[3] <=
0.1705605) {

                                        return 0;
                                    }
                                    else if (input[3] >
0.1705605) {

                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
                                else if (input[3] >
0.2063425) {

                                    if (input[1] <=
630.562141912229) {

                                        return 0;
                                    }
```

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```
                                                 else if (input[1] >
630.562141912229) {
                                                     return 1;
                                                 }
                                                 else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                             }
                                             else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                         }
                                         else if (input[1] >
737.522930706277) {
                                             if (input[1] <=
741.587677306175) {
                                                 return 1;
                                             }
                                             else if (input[1] >
741.587677306175) {
                                                 if (input[1] <=
776.856308882032) {
                                                     return 0;
                                                 }
                                                 else if (input[1] >
776.856308882032) {
                                                     return 0;
                                                 }
                                                 else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                             }
                                             else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                         }
                                         else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                     }
                                     else if (input[2] >
0.666854143232096) {
                                         if (input[1] <= 684.332781648395)
{
                                             return 1;
                                         }
                                         else if (input[1] >
684.332781648395) {
                                             if (input[1] <=
702.517503291598) {
                                                 return 0;
```

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```
                                                        }
                                                        else if (input[1] >
702.517503291598) {

                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                            }
                                            else if (input[1] > 796.477628836896) {
                                                if (input[3] <= 0.1503025) {
                                                    if (input[3] <= 0.117461) {
                                                        if (input[1] <=
4796.07695756855) {

                                                            if (input[2] <=
0.750067312870221) {

                                                                return 0;
                                                            }
                                                            else if (input[2] >
0.750067312870221) {

                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                        }
                                                        else if (input[1] >
4796.07695756855) {

                                                            if (input[3] <= 0.024947)
{

                                                                return 0;
                                                            }
                                                            else if (input[3] >
0.024947) {

                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
```

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```
                                                  else if (input[3] > 0.117461) {
                                                      if (input[1] <=
1627.86332471282) {
                                                          if (input[1] <=
1068.32247759938) {

                                                              return 0;
                                                          }
                                                          else if (input[1] >
1068.32247759938) {

                                                              return 0;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                      }
                                                      else if (input[1] >
1627.86332471282) {

                                                          return 1;
                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                              }
                                              else if (input[3] > 0.1503025) {
                                                  if (input[1] <= 1234.47402872514)
{

                                                      if (input[3] <= 0.212955) {
                                                          return 0;
                                                      }
                                                      else if (input[3] > 0.212955)
{

                                                          if (input[1] <=
891.665464408354) {

                                                              return 0;
                                                          }
                                                          else if (input[1] >
891.665464408354) {

                                                              return 1;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                  }
```

```
                                            else if (input[1] >
1234.47402872514) {

                                                if (input[2] <=
0.859340659340659) {

                                                    return 1;
                                                }
                                                else if (input[2] >
0.859340659340659) {

                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                                else if (input[0] > 1.01666666666667) {
                                    if (input[2] <= 0.835728143567358) {
                                        return 1;
                                    }
                                    else if (input[2] > 0.835728143567358) {
                                        if (input[1] <= 3200.04609459785) {
                                            if (input[0] <= 4.00595238095238)
{

                                                return 1;
                                            }
                                            else if (input[0] >
4.00595238095238) {

                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else if (input[1] > 3200.04609459785)
{

                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
```

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```
                                                else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[0] > 8.33974358974359) {
                                    return 0;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                        else if (input[1] > 5265.94561618826) {
                            if (input[2] <= 0.666854143232096) {
                                if (input[1] <= 5298.04495252121) {
                                    return 1;
                                }
                                else if (input[1] > 5298.04495252121) {
                                    if (input[1] <= 16386.4775095858) {
                                        return 0;
                                    }
                                    else if (input[1] > 16386.4775095858) {
                                        if (input[0] <= 0.0625) {
                                            return 1;
                                        }
                                        else if (input[0] > 0.0625) {
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else if (input[2] > 0.666854143232096) {
                                if (input[2] <= 0.859340659340659) {
                                    if (input[1] <= 7460.02965153787) {
                                        if (input[3] <= 0.035961) {
                                            return 0;
                                        }
                                        else if (input[3] > 0.035961) {
                                            return 1;
                                        }
```

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```
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else if (input[1] > 7460.02965153787) {
                                                    return 1;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else if (input[2] > 0.859340659340659) {
                                            if (input[1] <= 9600.15455606001) {
                                                if (input[1] <= 8863.9233091883) {
                                                    if (input[3] <= 0.0100005) {
                                                        return 0;
                                                    }
                                                    else if (input[3] > 0.0100005) {
                                                        if (input[0] <= 0.0625) {
                                                            return 1;
                                                        }
                                                        else if (input[0] > 0.0625) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else if (input[1] > 8863.9233091883)
{
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[1] > 9600.15455606001) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 2.");
```

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```
                                                }
                                                else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                            }
                                            else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                        }
                                        else if (input[0] > 11.55) {
                                            if (input[1] <= 5836.64406149527) {
                                                if (input[0] <= 26.9959595959596) {
                                                    if (input[0] <= 14.4058823529412) {
                                                        if (input[3] <= 0.123645) {
                                                            return 0;
                                                        }
                                                        else if (input[3] > 0.123645) {
                                                            if (input[1] <= 1146.94739407901) {
                                                                return 0;
                                                            }
                                                            else if (input[1] > 1146.94739407901) {
                                                                return 1;
                                                            }
                                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                                        }
                                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                                    }
                                                    else if (input[0] > 14.4058823529412) {
                                                        if (input[3] <= 0.168665) {
                                                            if (input[0] <= 23.6794871794872) {
                                                                if (input[0] <= 20.0276243093923) {
                                                                    if (input[0] <= 19.7740890688259)
{
                                                                        return 0;
                                                                    }
                                                                    else if (input[0] >
19.7740890688259) {
                                                                        if (input[2] <=
0.666854143232096) {
                                                                            return 0;
                                                                        }
                                                                        else if (input[2] >
0.666854143232096) {
                                                                            if (input[1] <=
4800.0333337963) {
                                                                                return 1;
```

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```
                                                                }
                                                                else if (input[1] >
4800.0333337963) {

                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[0] > 20.0276243093923)
{

                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else if (input[0] > 23.6794871794872) {
                                                    if (input[3] <= 0.0278135) {
                                                        if (input[0] <= 25.016339869281)
{

                                                            return 1;
                                                        }
                                                        else if (input[0] >
25.016339869281) {

                                                            if (input[1] <=
5400.02655356997) {

                                                                return 1;
                                                            }
                                                            else if (input[1] >
5400.02655356997) {

                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[3] > 0.0278135) {
                                                        if (input[1] <= 879.26505939708)
{
```

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```
                                    return 1;
                                }
                                else if (input[1] >
879.26505939708) {

                                    if (input[3] <= 0.0615535) {
                                        if (input[1] <=
2938.4693163291) {

                                            return 1;
                                        }
                                        else if (input[1] >
2938.4693163291) {

                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                    }
                                    else if (input[3] >
0.0615535) {

                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 1.");

                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 3.");

                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 0.");

                    }
                    else if (input[3] > 0.168665) {
                        if (input[2] <= 0.750067312870221) {
                            if (input[1] <= 776.142323020956) {
                                if (input[0] <= 25.4352941176471)
{

                                    return 0;
                                }
                                else if (input[0] >
25.4352941176471) {

                                    return 1;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");

                            }
```

```
                                                else if (input[1] > 776.14323020956)

{

                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[2] > 0.750067312870221) {
                                                return 1;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[0] > 26.9959595959596) {
                                    if (input[3] <= 0.0100005) {
                                        if (input[0] <= 28.015625) {
                                            if (input[0] <= 27.05) {
                                                return 1;
                                            }
                                            else if (input[0] > 27.05) {
                                                return 1;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else if (input[0] > 28.015625) {
                                            if (input[0] <= 29.0166666666667) {
                                                return 1;
                                            }
                                            else if (input[0] > 29.0166666666667) {
                                                return 1;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else if (input[3] > 0.0100005) {
                                        if (input[0] <= 35.6726190476191) {
```

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```
                                    if (input[1] <= 959.360767937815) {
                                        if (input[0] <= 27.6833333333333) {
                                            return 0;
                                        }
                                        else if (input[0] > 27.6833333333333)
{
                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else if (input[1] > 959.360767937815) {
                                        if (input[0] <= 29.6833333333333) {
                                            if (input[3] <= 0.0690455) {
                                                if (input[1] <=
3095.75971013156) {
                                                    return 1;
                                                }
                                                else if (input[1] >
3095.75971013156) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[3] > 0.0690455) {
                                                if (input[1] <=
3332.20922440532) {
                                                    if (input[1] <=
1398.42519814055) {
                                                        return 0;
                                                    }
                                                    else if (input[1] >
1398.42519814055) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[1] >
3332.20922440532) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
```

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```
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else if (input[0] > 29.6833333333333)
{
                                                    if (input[2] <=
0.666854143232096) {
                                                        if (input[1] <=
3735.89390495117) {
                                                            if (input[3] <=
0.0578795) {
                                                                return 1;
                                                            }
                                                            else if (input[3] >
0.0578795) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                        }
                                                        else if (input[1] >
3735.89390495117) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[2] >
0.666854143232096) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else if (input[0] > 35.6726190476191) {
                                            if (input[3] <= 0.0347795) {
                                                return 0;
                                            }
                                            else if (input[3] > 0.0347795) {
                                                if (input[1] <= 809.692124690069) {
```

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```
                                                    if (input[0] <= 37.0178571428571)
{
                                                        return 1;
                                                    }
                                                    else if (input[0] >
37.0178571428571) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                            else if (input[1] > 809.692124690069)
{
                                                    if (input[0] <= 36.0178571428571)
{
                                                        return 1;
                                                    }
                                                    else if (input[0] >
36.0178571428571) {
                                                        if (input[2] <=
0.666854143232096) {
                                                            if (input[0] <=
39.0106783919598) {
                                                                return 1;
                                                            }
                                                            else if (input[0] >
39.0106783919598) {
                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[2] >
0.666854143232096) {
                                                            if (input[3] <=
0.1571465) {
                                                                return 0;
                                                            }
                                                            else if (input[3] >
0.1571465) {
                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                        }
```

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```
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                        }
                        else throw new ArgumentException("input", "Unexpected
value at position 0.");
                    }
                    else if (input[1] > 5836.64406149527) {
                        if (input[3] <= 0.0100005) {
                            if (input[2] <= 0.666854143232096) {
                                return 1;
                            }
                            else if (input[2] > 0.666854143232096) {
                                if (input[3] <= 0.006764) {
                                    if (input[0] <= 32.5166666666667) {
                                        return 0;
                                    }
                                    else if (input[0] > 32.5166666666667) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[3] > 0.006764) {
                                    if (input[0] <= 49.0042826552463) {
                                        if (input[0] <= 47.0217391304348) {
                                            if (input[1] <= 6600.01622586403)
{
                                                if (input[1] <=
6400.07013852358) {
                                                    if (input[0] <=
33.0178571428571) {
```

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```
                return 0;
            }
            else if (input[0] >
33.0178571428571) {
                return 0;
            }
            else throw new
ArgumentException("input", "Unexpected value at position 0.");
        }
        else if (input[1] >
6400.07013852358) {
            if (input[0] <=
25.016339869281) {
                return 1;
            }
            else if (input[0] >
25.016339869281) {
                return 0;
            }
            else throw new
ArgumentException("input", "Unexpected value at position 0.");
        }
        else throw new
ArgumentException("input", "Unexpected value at position 1.");
    }
    else if (input[1] >
6600.01622586403) {
        if (input[0] <=
46.0138888888889) {
            if (input[1] <=
6900.21916092674) {
                return 0;
            }
            else if (input[1] >
6900.21916092674) {
                return 0;
            }
            else throw new
ArgumentException("input", "Unexpected value at position 1.");
        }
        else if (input[0] >
46.0138888888889) {
            return 0;
        }
        else throw new
ArgumentException("input", "Unexpected value at position 0.");
```

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```
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                }
                                                            else if (input[0] > 47.0217391304348)
                                                            {
                                                                if (input[0] <= 48.0041712005803)
                                                                {
                                                                    if (input[1] <=
7600.0394482284) {

                                                                        return 0;
                                                                    }
                                                                    else if (input[1] >
7600.0394482284) {

                                                                        return 1;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                }
                                                                else if (input[0] >
48.0041712005803) {

                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                    else if (input[0] > 49.0042826552463) {
                                                        if (input[1] <= 8100.12575956552) {
                                                            if (input[0] <= 52.0110410094637)
                                                            {
                                                                if (input[0] <= 50.003125) {
                                                                    return 0;
                                                                }
                                                                else if (input[0] >
50.003125) {

                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
                                                            else if (input[0] >
52.0110410094637) {

                                                                return 0;
```

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```
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[1] > 8100.12575956552)
{
                                                            if (input[0] <= 53.0092592592593)
{
                                                                return 0;
                                                            }
                                                            else if (input[0] >
53.0092592592593) {
                                                                if (input[1] <=
8200.16176236828) {
                                                                    return 0;
                                                                }
                                                                else if (input[1] >
8200.16176236828) {
                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                        }
                                        else if (input[3] > 0.0100005) {
                                            if (input[1] <= 6225.4416409349) {
                                                if (input[3] <= 0.033667) {
                                                    if (input[1] <= 6165.8667226031) {
                                                        return 1;
                                                    }
                                                    else if (input[1] > 6165.8667226031) {
                                                        return 0;
```

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```
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else if (input[3] > 0.033667) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                }
                                else if (input[1] > 6225.4416409349) {
                                    if (input[0] <= 38.1569230769231) {
                                        if (input[3] <= 0.0308265) {
                                            return 1;
                                        }
                                        else if (input[3] > 0.0308265) {
                                            if (input[2] <= 0.769667418674041) {
                                                if (input[2] <=
0.666854143232096) {
                                                    if (input[1] <=
6669.15863296563) {
                                                        return 0;
                                                    }
                                                    else if (input[1] >
6669.15863296563) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[2] >
0.666854143232096) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                            }
                                            else if (input[2] >
0.769667418674041) {
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
```

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```
                                                }
                                                else if (input[0] > 38.1569230769231) {
                                                    if (input[2] <= 0.800172117039587) {
                                                        if (input[1] <= 9278.03606870565) {
                                                            if (input[1] <= 8906.96969485809)
{
                                                                return 1;
                                                            }
                                                            else if (input[1] >
8906.96969485809) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else if (input[1] > 9278.03606870565)
{
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[2] > 0.800172117039587) {
                                                        if (input[0] <= 52.0110410094637) {
                                                            return 0;
                                                        }
                                                        else if (input[0] > 52.0110410094637)
{
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else throw new ArgumentException("input", "Unexpected
value at position 3.");
                                    }
```

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```
                                else throw new ArgumentException("input", "Unexpected
value at position 1.");
                        }
                    else throw new ArgumentException("input", "Unexpected value
at position 0.");
                }
            else if (input[0] > 54.0151515151515) {
                if (input[3] <= 0.0100005) {
                    if (input[0] <= 192.041666666667) {
                        if (input[0] <= 89.0263157894737) {
                            if (input[0] <= 64.0454545454545) {
                                if (input[1] <= 8700.04205425627) {
                                    if (input[0] <= 57.0208333333333) {
                                        if (input[0] <= 55.0083333333333) {
                                            return 0;
                                        }
                                        else if (input[0] > 55.0083333333333)
{

                                            if (input[0] <= 56.0181818181818)
{

                                                return 0;
                                            }
                                            else if (input[0] >
56.0181818181818) {

                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else if (input[0] > 57.0208333333333) {
                                        if (input[0] <= 58.0035971223022) {
                                            return 1;
                                        }
                                        else if (input[0] > 58.0035971223022)
{

                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
```

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```
                                        else if (input[1] > 8700.04205425627) {
                                            if (input[0] <= 60.0066666666667) {
                                                if (input[0] <= 58.0035971223022) {
                                                    return 0;
                                                }
                                                else if (input[0] > 58.0035971223022)
{
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[0] > 60.0066666666667) {
                                                if (input[1] <= 8900.36339143971) {
                                                    return 1;
                                                }
                                                else if (input[1] > 8900.36339143971)
{
                                                    if (input[1] <= 10404.6281669607)
{
                                                        if (input[1] <=
9000.10227505171) {
                                                            return 0;
                                                        }
                                                        else if (input[1] >
9000.10227505171) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[1] >
10404.6281669607) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
```

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```
                            }
                            else if (input[0] > 64.0454545454545) {
                                if (input[1] <= 10300.2116548776) {
                                    if (input[0] <= 65.0304054054054) {
                                        return 1;
                                    }
                                    else if (input[0] > 65.0304054054054) {
                                        if (input[0] <= 74.0164835164835) {
                                            if (input[0] <= 69.003861003861)
{
                                                if (input[0] <=
67.0238095238095) {
                                                    return 0;
                                                }
                                                else if (input[0] >
67.0238095238095) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[0] >
69.003861003861) {
                                                if (input[0] <= 70.05) {
                                                    return 0;
                                                }
                                                else if (input[0] > 70.05) {
                                                    if (input[0] <=
72.0096153846154) {
                                                        return 1;
                                                    }
                                                    else if (input[0] >
72.0096153846154) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else if (input[0] > 74.0164835164835)
{
```

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```
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else if (input[1] > 10300.2116548776) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                            else if (input[0] > 89.0263157894737) {
                                if (input[1] <= 13100.4885510781) {
                                    if (input[0] <= 100.038461538462) {
                                        if (input[1] <= 12500.0616752892) {
                                            return 1;
                                        }
                                        else if (input[1] > 12500.0616752892) {
                                            if (input[0] <= 90.02) {
                                                return 0;
                                            }
                                            else if (input[0] > 90.02) {
                                                if (input[0] <= 98.025641025641)
{
                                                    return 1;
                                                }
                                                else if (input[0] >
98.025641025641) {
                                                    if (input[0] <=
99.0338700721821) {
                                                        return 0;
                                                    }
                                                    else if (input[0] >
99.0338700721821) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
```

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```
                                                           else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                              }
                                              else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                      }
                                      else if (input[0] > 100.038461538462) {
                                          if (input[0] <= 101.015151515152) {
                                              return 1;
                                          }
                                          else if (input[0] > 101.015151515152) {
                                              return 1;
                                          }
                                          else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                      }
                                      else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                  }
                                  else if (input[1] > 13100.4885510781) {
                                      if (input[0] <= 101.015151515152) {
                                          return 0;
                                      }
                                      else if (input[0] > 101.015151515152) {
                                          if (input[0] <= 137.017857142857) {
                                              if (input[0] <= 125.033333333333) {
                                                  if (input[1] <= 14600.1581700937)
{
                                                      if (input[0] <=
106.014285714286) {
                                                          if (input[0] <=
104.045454545455) {
                                                              return 1;
                                                          }
                                                          else if (input[0] >
104.045454545455) {
                                                              return 1;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                      }
                                                      else if (input[0] >
106.014285714286) {
```

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```
                                    if (input[0] <=
112.041666666667) {

                                        return 0;
                                    }
                                    else if (input[0] >
112.041666666667) {

                                        return 1;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                            }
                            else if (input[1] >
14600.1581700937) {

                                return 0;
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                        }
                        else if (input[0] > 125.033333333333)
{

                            if (input[0] <= 126.045454545455)
{

                                return 1;
                            }
                            else if (input[0] >
126.045454545455) {

                                if (input[0] <=
132.027777777778) {

                                    if (input[0] <=
131.027777777778) {

                                        return 1;
                                    }
                                    else if (input[0] >
131.027777777778) {

                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                }
                                else if (input[0] >
132.027777777778) {

                                    return 1;
                                }
```

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```
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                            else if (input[0] > 137.017857142857) {
                                if (input[0] <= 144.033333333333) {
                                    return 0;
                                }
                                else if (input[0] > 144.033333333333)
{
                                    if (input[0] <= 183.035087719298)
{
                                        if (input[0] <= 160.05) {
                                            if (input[0] <=
154.027777777778) {

                                                return 1;
                                            }
                                            else if (input[0] >
154.027777777778) {

                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else if (input[0] > 160.05) {
                                            return 0;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else if (input[0] >
183.035087719298) {
                                        if (input[0] <=
188.041666666667) {
                                            return 1;
                                        }
                                        else if (input[0] >
188.041666666667) {
                                            if (input[0] <=
190.022123893805) {
                                                return 0;
```

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```
                                                }
                                                else if (input[0] >
190.022123893805) {
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                    }
                    else throw new ArgumentException("input", "Unexpected
value at position 0.");
                }
                else if (input[0] > 192.041666666667) {
                    if (input[0] <= 201.015625) {
                        if (input[0] <= 194.015151515152) {
                            return 0;
                        }
                        else if (input[0] > 194.015151515152) {
                            return 0;
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                    }
                    else if (input[0] > 201.015625) {
                        return 0;
                    }
                    else throw new ArgumentException("input", "Unexpected
value at position 0.");
                }
```

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```
                                            else throw new ArgumentException("input", "Unexpected
value at position 0.");
                        }
                    else if (input[3] > 0.0100005) {
                        if (input[0] <= 201.015625) {
                            if (input[2] <= 0.727833894500561) {
                                if (input[3] <= 0.147972) {
                                    if (input[0] <= 173.027777777778) {
                                        if (input[1] <= 4031.20318068544) {
                                            return 1;
                                        }
                                        else if (input[1] > 4031.20318068544) {
                                            if (input[1] <= 4033.82133373971) {
                                                return 0;
                                            }
                                            else if (input[1] > 4033.82133373971)
{
                                                if (input[3] <= 0.0527245) {
                                                    return 1;
                                                }
                                                else if (input[3] > 0.0527245) {
                                                    if (input[3] <= 0.0527825) {
                                                        return 0;
                                                    }
                                                    else if (input[3] >
0.0527825) {
                                                        if (input[3] <=
0.1164885) {
                                                            return 1;
                                                        }
                                                        else if (input[3] >
0.1164885) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
```

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```
                                               else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                           }
                                           else if (input[0] > 173.027777777778) {
                                               if (input[0] <= 177.672619047619) {
                                                   if (input[0] <= 174.887878787879) {
                                                       return 0;
                                                   }
                                                   else if (input[0] > 174.887878787879)
{
                                                       if (input[0] <= 176.679487179487)
{
                                                           return 1;
                                                       }
                                                       else if (input[0] >
176.679487179487) {
                                                           return 0;
                                                       }
                                                       else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                   }
                                                   else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                               }
                                               else if (input[0] > 177.672619047619) {
                                                   return 1;
                                               }
                                               else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                           }
                                           else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                       }
                                       else if (input[3] > 0.147972) {
                                           if (input[3] <= 0.217862) {
                                               if (input[1] <= 2576.47332573911) {
                                                   return 1;
                                               }
                                               else if (input[1] > 2576.47332573911) {
                                                   if (input[0] <= 150.472222222222) {
                                                       if (input[2] <=
0.703203203203203) {
                                                           if (input[2] <=
0.666854143232096) {
                                                               if (input[1] <=
7434.93983404074) {
```

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```
                    return 1;
                }
                else if (input[1] >
7434.93983404074) {
                    return 1;
                }
                else throw new
ArgumentException("input", "Unexpected value at position 1.");
            }
            else if (input[2] >
0.666854143232096) {
                return 0;
            }
            else throw new
ArgumentException("input", "Unexpected value at position 2.");
        }
        else if (input[2] >
0.703203203203203) {
            return 1;
        }
        else throw new
ArgumentException("input", "Unexpected value at position 2.");
    }
    else if (input[0] > 150.472222222222)
{
        if (input[0] <= 164.679487179487)
{
            if (input[0] <=
157.361111111111) {
                if (input[0] <=
156.354166666667) {
                    return 1;
                }
                else if (input[0] >
156.354166666667) {
                    return 0;
                }
                else throw new
ArgumentException("input", "Unexpected value at position 0.");
            }
            else if (input[0] >
157.361111111111) {
                return 1;
            }
            else throw new
ArgumentException("input", "Unexpected value at position 0.");
```

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```
                                                        }
                                                        else if (input[0] >
164.679487179487) {
                                                            if (input[0] <=
176.348484848485) {
                                                                if (input[0] <=
176.045454545455) {
                                                                    return 1;
                                                                }
                                                                else if (input[0] >
176.045454545455) {
                                                                    return 0;
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                            }
                                                            else if (input[0] >
176.348484848485) {
                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else if (input[3] > 0.217862) {
                                            if (input[0] <= 76.6933333333333) {
                                                return 1;
                                            }
                                            else if (input[0] > 76.6933333333333) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
```

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```
                                                else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                        }
                                        else if (input[2] > 0.727833894500561) {
                                            if (input[2] <= 0.750067312870221) {
                                                return 0;
                                            }
                                            else if (input[2] > 0.750067312870221) {
                                                if (input[0] <= 68.0026595744681) {
                                                    if (input[0] <= 65.0304054054054) {
                                                        return 1;
                                                    }
                                                    else if (input[0] > 65.0304054054054) {
                                                        return 0;
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                                }
                                                else if (input[0] > 68.0026595744681) {
                                                    return 1;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                        }
                                        else throw new ArgumentException("input", "Unexpected
value at position 2.");
                                }
                                else if (input[0] > 201.015625) {
                                    if (input[2] <= 0.666854143232096) {
                                        if (input[1] <= 23602.958912386) {
                                            return 0;
                                        }
                                        else if (input[1] > 23602.958912386) {
                                            return 1;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else if (input[2] > 0.666854143232096) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 2.");
```

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```
                                }
                            else throw new ArgumentException("input", "Unexpected
value at position 0.");
                        }
                    else throw new ArgumentException("input", "Unexpected value
at position 3.");
                }
            else throw new ArgumentException("input", "Unexpected value at
position 0.");
        }
    else if (input[1] > 24118.0989380597) {
        if (input[2] <= 0.666854143232096) {
            if (input[2] <= 0.657193336698637) {
                if (input[0] <= 87.2676470588235) {
                    return 1;
                }
                else if (input[0] > 87.2676470588235) {
                    return 0;
                }
                else throw new ArgumentException("input", "Unexpected
value at position 0.");
            }
            else if (input[2] > 0.657193336698637) {
                if (input[1] <= 371599.22189649) {
                    if (input[0] <= 11.4772727272727) {
                        if (input[1] <= 337468.172777277) {
                            if (input[1] <= 156324.221451464) {
                                if (input[1] <= 153808.175356958) {
                                    return 0;
                                }
                                else if (input[1] > 153808.175356958) {
                                    return 1;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                            }
                            else if (input[1] > 156324.221451464) {
                                return 0;
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                        }
                        else if (input[1] > 337468.172777277) {
                            if (input[3] <= 0.0003555) {
                                return 0;
                            }
```

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```
                                        else if (input[3] > 0.0003555) {
                                            if (input[0] <= 0.0625) {
                                                return 1;
                                            }
                                            else if (input[0] > 0.0625) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");

                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");

                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");

                                }
                                else if (input[0] > 11.4772727272727) {
                                    if (input[0] <= 196.354166666667) {
                                        if (input[1] <= 34815.7153216334) {
                                            if (input[1] <= 34738.2744991511) {
                                                return 1;
                                            }
                                            else if (input[1] > 34738.2744991511) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");

                                        }
                                        else if (input[1] > 34815.7153216334) {
                                            return 1;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");

                                    }
                                    else if (input[0] > 196.354166666667) {
                                        if (input[3] <= 0.15388) {
                                            return 0;
                                        }
                                        else if (input[3] > 0.15388) {
                                            if (input[0] <= 226.258333333333) {
                                                return 0;
                                            }
                                            else if (input[0] > 226.258333333333) {
                                                return 1;
                                            }
```

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```
                                                         else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                                     }
                                                 else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                             }
                                         else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                     }
                                 else throw new ArgumentException("input", "Unexpected
value at position 0.");
                             }
                         else if (input[1] > 371599.22189649) {
                             if (input[3] <= 0.0015735) {
                                 if (input[0] <= 0.0625) {
                                     return 1;
                                 }
                                 else if (input[0] > 0.0625) {
                                     if (input[0] <= 7.70833333333333) {
                                         return 0;
                                     }
                                     else if (input[0] > 7.70833333333333) {
                                         return 1;
                                     }
                                     else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                 }
                                 else throw new ArgumentException("input",
"Unexpected value at position 0.");
                             }
                             else if (input[3] > 0.0015735) {
                                 if (input[0] <= 90.02) {
                                     return 1;
                                 }
                                 else if (input[0] > 90.02) {
                                     return 0;
                                 }
                                 else throw new ArgumentException("input",
"Unexpected value at position 0.");
                             }
                             else throw new ArgumentException("input", "Unexpected
value at position 3.");
                         }
                     else throw new ArgumentException("input", "Unexpected
value at position 1.");
                 }
```

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```
                                        else throw new ArgumentException("input", "Unexpected value
at position 2.");
                            }
                            else if (input[2] > 0.666854143232096) {
                                if (input[0] <= 0.0625) {
                                    if (input[3] <= 0.000718) {
                                        return 0;
                                    }
                                    else if (input[3] > 0.000718) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 3.");
                                }
                                else if (input[0] > 0.0625) {
                                    if (input[1] <= 32712.5921613909) {
                                        if (input[2] <= 0.703203203203203) {
                                            return 0;
                                        }
                                        else if (input[2] > 0.703203203203203) {
                                            if (input[0] <= 250.041666666667) {
                                                if (input[0] <= 209.038461538462) {
                                                    if (input[3] <= 0.073683) {
                                                        return 1;
                                                    }
                                                    else if (input[3] > 0.073683) {
                                                        if (input[0] <= 36.7453703703704) {
                                                            return 0;
                                                        }
                                                        else if (input[0] > 36.7453703703704)
{
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                                }
                                                else if (input[0] > 209.038461538462) {
                                                    return 0;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                            }
                                            else if (input[0] > 250.041666666667) {
```

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```
                                        if (input[1] <= 31900.1350270688) {
                                            if (input[1] <= 31500.7519304416) {
                                                return 1;
                                            }
                                            else if (input[1] > 31500.7519304416) {
                                                if (input[0] <= 288.057189542484) {
                                                    return 0;
                                                }
                                                else if (input[0] > 288.057189542484)
{

                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else if (input[1] > 31900.1350270688) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 2.");
                            }
                            else if (input[1] > 32712.5921613909) {
                                if (input[1] <= 33033.7672638351) {
                                    return 0;
                                }
                                else if (input[1] > 33033.7672638351) {
                                    if (input[2] <= 0.700515463917526) {
                                        return 0;
                                    }
                                    else if (input[2] > 0.700515463917526) {
                                        if (input[2] <= 0.800172117039587) {
                                            if (input[3] <= 0.166728) {
                                                if (input[0] <= 438.3875) {
                                                    return 1;
                                                }
                                                else if (input[0] > 438.3875) {
```

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```
                                                    if (input[0] <= 528.199404761905)
{

                                                        return 0;
                                                    }
                                                    else if (input[0] >
528.199404761905) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[3] > 0.166728) {
                                                if (input[2] <= 0.743843657740939) {
                                                    return 0;
                                                }
                                                else if (input[2] >
0.743843657740939) {

                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                        }
                                        else if (input[2] > 0.800172117039587) {
                                            if (input[1] <= 1340336.70955379) {
                                                if (input[3] <= 0.0002135) {
                                                    return 0;
                                                }
                                                else if (input[3] > 0.0002135) {
                                                    if (input[1] <= 825978.801643954)
{

                                                        if (input[1] <=
514495.798319328) {
{

                                                            if (input[3] <= 0.000718)
{

                                                                return 0;
                                                            }
                                                            else if (input[3] >
0.000718) {

                                                                return 0;
                                                            }
```

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```
                                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                        }
                                                        else if (input[1] >
514495.798319328) {
                                                            if (input[0] <=
39.0106783919598) {
                                                                return 0;
                                                            }
                                                            else if (input[0] >
39.0106783919598) {
                                                                return 1;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[1] >
825978.801643954) {
                                                        return 0;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[1] > 1340336.70955379) {
                                                return 1;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                            else throw new ArgumentException("input", "Unexpected
value at position 1.");
                            }
                        else throw new ArgumentException("input", "Unexpected
value at position 1.");
```

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```
                                                }
                                                else throw new ArgumentException("input", "Unexpected value
at position 0.");
                                            }
                                            else throw new ArgumentException("input", "Unexpected value at
position 2.");
                                        }
                                        else throw new ArgumentException("input", "Unexpected value at
position 1.");
                                    }
                                    else if (input[3] > 0.2191735) {
                                        if (input[3] <= 29.1344495) {
                                            if (input[0] <= 37.343137254902) {
                                                if (input[3] <= 0.889993) {
                                                    if (input[1] <= 706.137152002917) {
                                                        if (input[2] <= 0.750067312870221) {
                                                            if (input[0] <= 11.4772727272727) {
                                                                if (input[3] <= 0.497358) {
                                                                    if (input[0] <= 0.0625) {
                                                                        if (input[3] <= 0.278894) {
                                                                            return 0;
                                                                        }
                                                                        else if (input[3] > 0.278894) {
                                                                            if (input[1] <= 390.184047463777)
{
                                                                                if (input[1] <=
326.485243706659) {
                                                                                    if (input[1] <=
256.684200640896) {
                                                                                        return 0;
                                                                                    }
                                                                                    else if (input[1] >
256.684200640896) {
                                                                                        return 0;
                                                                                    }
                                                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                                                }
                                                                                else if (input[1] >
326.485243706659) {
                                                                                    if (input[1] <=
327.960258983441) {
                                                                                        return 1;
                                                                                    }
                                                                                    else if (input[1] >
327.960258983441) {
```

```
                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[1] >
390.184047463777) {
                                            if (input[2] <=
0.666854143232096) {
                                                if (input[3] <= 0.30885)
{
                                                    return 0;
                                                }
                                                else if (input[3] >
0.30885) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[2] >
0.666854143232096) {
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
                                else if (input[0] > 0.0625) {
                                    return 0;
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                            else if (input[3] > 0.497358) {
                                if (input[1] <= 371.288860442785) {
                                    if (input[3] <= 0.737466) {
```

```
                                                if (input[2] <=
0.666854143232096) {

                                                    if (input[3] <= 0.552891) {
                                                        if (input[1] <=
267.047962887353) {

                                                            return 0;
                                                        }
                                                        else if (input[1] >
267.047962887353) {

                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                                    }
                                                    else if (input[3] > 0.552891)
{

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                                }
                                                else if (input[2] >
0.666854143232096) {

                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 2.");

                                            }
                                            else if (input[3] > 0.737466) {
                                                if (input[1] <= 258.283674280832)
{

                                                    return 0;
                                                }
                                                else if (input[1] >
258.283674280832) {

                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");

                                        }
                                        else if (input[1] > 371.288860442785) {
                                            if (input[3] <= 0.595888) {
```

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```
                                                    if (input[2] <=
0.666854143232096) {

                                                        if (input[3] <= 0.576033) {
                                                            if (input[1] <=
416.711464616077) {

                                                                return 1;
                                                            }
                                                            else if (input[1] >
416.711464616077) {

                                                                return 1;
                                                            }
                                                            else throw new

ArgumentException("input", "Unexpected value at position 1.");

                                                        }
                                                        else if (input[3] > 0.576033)
{

                                                            return 0;
                                                        }
                                                        else throw new

ArgumentException("input", "Unexpected value at position 3.");

                                                    }
                                                    else if (input[2] >
0.666854143232096) {

                                                        return 0;
                                                    }
                                                    else throw new

ArgumentException("input", "Unexpected value at position 2.");

                                                }
                                                else if (input[3] > 0.595888) {
                                                    return 1;
                                                }
                                                else throw new

ArgumentException("input", "Unexpected value at position 3.");

                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");

                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");

                                    }
                                    else if (input[0] > 11.4772727272727) {
                                        if (input[0] <= 12.0833333333333) {
                                            return 1;
                                        }
                                        else if (input[0] > 12.0833333333333) {
                                            if (input[0] <= 25.8787114845938) {
```

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```
                                          if (input[1] <= 630.03072306263) {
                                              return 0;
                                          }
                                          else if (input[1] > 630.03072306263)
{
{
                                              if (input[1] <= 640.801160801562)

                                                  return 1;
                                              }
                                              else if (input[1] >
640.801160801562) {

                                                  if (input[0] <=
24.3666666666667) {

                                                      return 0;
                                                  }
                                                  else if (input[0] >
24.3666666666667) {

                                                      if (input[0] <=
25.016339869281) {

                                                          return 1;
                                                      }
                                                      else if (input[0] >
25.016339869281) {

                                                          return 0;
                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                          }
                                          else throw new
ArgumentException("input", "Unexpected value at position 1.");

                                      }
                                      else if (input[0] > 25.8787114845938) {
                                          if (input[3] <= 0.480171) {
                                              if (input[1] <= 411.847585744292)
{

                                                  return 1;
                                              }
                                              else if (input[1] >
411.847585744292) {

                                                  if (input[3] <= 0.3089335) {
```

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```
                                            return 1;
                                        }
                                        else if (input[3] >
0.3089335) {
                                            if (input[3] <= 0.406893)
{
                                                return 0;
                                            }
                                            else if (input[3] >
0.406893) {
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                }
                                else if (input[3] > 0.480171) {
                                    if (input[1] <= 561.562432861382)
{
                                        if (input[0] <=
29.5166666666667) {
                                            return 0;
                                        }
                                        else if (input[0] >
29.5166666666667) {
                                            if (input[0] <=
32.343137254902) {
                                                return 0;
                                            }
                                            else if (input[0] >
32.343137254902) {
                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else if (input[1] >
561.562432861382) {
```

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```
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else throw new ArgumentException("input",
"Unexpected value at position 0.");
                            }
                            else if (input[2] > 0.750067312870221) {
                                if (input[1] <= 694.959642140743) {
                                    if (input[1] <= 246.56682988742) {
                                        return 0;
                                    }
                                    else if (input[1] > 246.56682988742) {
                                        if (input[0] <= 8.05555555555556) {
                                            if (input[2] <= 0.859340659340659) {
                                                return 1;
                                            }
                                            else if (input[2] >
0.859340659340659) {
                                                if (input[3] <= 0.2215225) {
                                                    return 0;
                                                }
                                                else if (input[3] > 0.2215225) {
                                                    if (input[1] <=
315.142146176618) {
                                                        if (input[3] <=
0.3124745) {
                                                            return 1;
                                                        }
                                                        else if (input[3] >
0.3124745) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                    }
```

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```
                                          else if (input[1] >
315.142146176618) {
                                              if (input[3] <=
0.2962875) {
                                                  return 1;
                                              }
                                              else if (input[3] >
0.2962875) {
                                                  return 0;
                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                          }
                                          else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                      }
                                      else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                  }
                                  else throw new
ArgumentException("input", "Unexpected value at position 2.");
                              }
                              else if (input[0] > 8.05555555555556) {
                                  return 1;
                              }
                              else throw new ArgumentException("input",
"Unexpected value at position 0.");
                          }
                          else throw new ArgumentException("input",
"Unexpected value at position 1.");
                      }
                      else if (input[1] > 694.959642140743) {
                          return 0;
                      }
                      else throw new ArgumentException("input",
"Unexpected value at position 1.");
                  }
                  else throw new ArgumentException("input", "Unexpected
value at position 2.");
              }
              else if (input[1] > 706.137152002917) {
                  if (input[0] <= 14.4058823529412) {
                      if (input[1] <= 992.154096814513) {
                          if (input[3] <= 0.2709295) {
                              return 0;
                          }
```

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```
                                        else if (input[3] > 0.2709295) {
                                            if (input[2] <= 0.800172117039587) {
                                                if (input[0] <= 12.0833333333333) {
                                                    return 1;
                                                }
                                                else if (input[0] > 12.0833333333333)
{
{
                                                    if (input[0] <= 13.2916666666667)
{
                                                        return 0;
                                                    }
                                                    else if (input[0] >
13.2916666666667) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[2] > 0.800172117039587) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                    }
                                    else if (input[1] > 992.154096814513) {
                                        if (input[2] <= 0.666854143232096) {
                                            if (input[0] <= 8.87301587301587) {
                                                return 0;
                                            }
                                            else if (input[0] > 8.87301587301587) {
                                                return 1;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else if (input[2] > 0.666854143232096) {
                                            return 1;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
```

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```
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                                else if (input[0] > 14.4058823529412) {
                                    if (input[2] <= 0.750067312870221) {
                                        if (input[1] <= 1848.4918448404) {
                                            if (input[1] <= 708.627927230981) {
                                                return 1;
                                            }
                                            else if (input[1] > 708.627927230981) {
                                                if (input[3] <= 0.3833035) {
                                                    if (input[0] <= 29.5166666666667)
{
                                                        return 0;
                                                    }
                                                    else if (input[0] >
29.5166666666667) {
                                                        if (input[0] <=
30.0333333333333) {
                                                            return 1;
                                                        }
                                                        else if (input[0] >
30.0333333333333) {
                                                            if (input[0] <= 36.51) {
                                                                return 0;
                                                            }
                                                            else if (input[0] >
36.51) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else if (input[3] > 0.3833035) {
                                                    if (input[3] <= 0.4169325) {
                                                        return 1;
                                                    }
                                                    else if (input[3] > 0.4169325) {
```

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```
                                                      if (input[1] <=
1052.60107152325) {

                                                          return 0;
                                                      }
                                                      else if (input[1] >
1052.60107152325) {

                                                          return 1;
                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                          }
                                          else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                      }
                                      else if (input[1] > 1848.4918448404) {
                                          if (input[0] <= 25.8787114845938) {
                                              return 0;
                                          }
                                          else if (input[0] > 25.8787114845938) {
                                              return 1;
                                          }
                                          else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                      }
                                      else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                  }
                                  else if (input[2] > 0.750067312870221) {
                                      return 1;
                                  }
                                  else throw new ArgumentException("input",
"Unexpected value at position 2.");
                              }
                              else throw new ArgumentException("input", "Unexpected
value at position 0.");
                          }
                          else throw new ArgumentException("input", "Unexpected
value at position 1.");
                      }
                  else if (input[3] > 0.889993) {
```

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```
                              if (input[0] <= 17.0714285714286) {
                                  return 1;
                              }
                              else if (input[0] > 17.0714285714286) {
                                  if (input[1] <= 306.467993512912) {
                                      if (input[0] <= 31.5059523809524) {
                                          return 0;
                                      }
                                      else if (input[0] > 31.5059523809524) {
                                          return 1;
                                      }
                                      else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                  }
                                  else if (input[1] > 306.467993512912) {
                                      if (input[1] <= 1472.90052034035) {
                                          if (input[0] <= 33.4833333333333) {
                                              if (input[0] <= 33.0690476190476) {
                                                  if (input[2] <= 0.666854143232096) {
                                                      if (input[1] <= 535.204320754052)
{
                                                          return 1;
                                                      }
                                                      else if (input[1] >
535.204320754052) {
                                                          return 0;
                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                  }
                                                  else if (input[2] >
0.666854143232096) {
                                                      return 1;
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                              }
                                              else if (input[0] > 33.0690476190476) {
                                                  return 0;
                                              }
                                              else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                          }
                                          else if (input[0] > 33.4833333333333) {
                                              return 1;
                                          }
```

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```
                                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                                }
                                                else if (input[1] > 1472.90052034035) {
                                                    return 0;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                            }
                                            else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                        }
                                        else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                    }
                                    else throw new ArgumentException("input", "Unexpected value
at position 3.");
                                }
                                else if (input[0] > 37.343137254902) {
                                    if (input[2] <= 0.664776646082284) {
                                        if (input[0] <= 784.356687727565) {
                                            if (input[1] <= 1229.5620360731) {
                                                if (input[0] <= 45.6214887640449) {
                                                    return 1;
                                                }
                                                else if (input[0] > 45.6214887640449) {
                                                    if (input[0] <= 70.3166666666667) {
                                                        return 0;
                                                    }
                                                    else if (input[0] > 70.3166666666667) {
                                                        if (input[0] <= 77.7610759493671) {
                                                            return 1;
                                                        }
                                                        else if (input[0] > 77.7610759493671) {
                                                            if (input[1] <= 456.584752734854) {
                                                                return 0;
                                                            }
                                                            else if (input[1] > 456.584752734854)
{
                                                                if (input[1] <= 574.838268970998)
{
                                                                    if (input[3] <= 17.0251055) {
                                                                        return 1;
                                                                    }
                                                                    else if (input[3] >
17.0251055) {
```

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```
                                                   return 0;
                                                 }
                                                 else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                               }
                                               else if (input[1] >
574.838268970998) {
                                                 if (input[0] <=
289.633928571429) {
                                                   if (input[0] <=
263.948412698413) {
                                                     return 0;
                                                   }
                                                   else if (input[0] >
263.948412698413) {
                                                     return 1;
                                                   }
                                                   else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                 }
                                                 else if (input[0] >
289.633928571429) {
                                                   return 0;
                                                 }
                                                 else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                               }
                                               else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                             }
                                             else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                           }
                                           else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                         }
                                         else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                       }
                                       else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                     }
                                     else if (input[1] > 1229.5620360731) {
                                       if (input[0] <= 661.238421052632) {
                                         if (input[1] <= 26866.1472174898) {
                                           return 1;
```

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```
                                                }
                                                else if (input[1] > 26866.1472174898) {
                                                    if (input[0] <= 343.485294117647) {
                                                        return 0;
                                                    }
                                                    else if (input[0] > 343.485294117647) {
                                                        return 1;
                                                    }
                                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                            }
                                            else if (input[0] > 661.238421052632) {
                                                if (input[0] <= 662.547149122807) {
                                                    return 0;
                                                }
                                                else if (input[0] > 662.547149122807) {
                                                    if (input[1] <= 34672.9023674346) {
                                                        if (input[3] <= 8.6321345) {
                                                            if (input[0] <= 706.317540322581)
{
                                                                if (input[3] <= 3.1801465) {
                                                                    return 0;
                                                                }
                                                                else if (input[3] >
3.1801465) {
                                                                    if (input[2] <=
0.652835169880625) {
                                                                        return 1;
                                                                    }
                                                                    else if (input[2] >
0.652835169880625) {
                                                                        return 0;
                                                                    }
                                                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                                }
                                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                            }
                                                            else if (input[0] >
706.317540322581) {
                                                                return 0;
                                                            }
```

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```
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[3] > 8.6321345) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else if (input[1] > 34672.9023674346) {
                                                    return 1;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                }
                                else if (input[0] > 784.356687727565) {
                                    if (input[1] <= 395336.756266989) {
                                        return 0;
                                    }
                                    else if (input[1] > 395336.756266989) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 1.");
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 0.");
                            }
                            else if (input[2] > 0.664776646082284) {
                                if (input[0] <= 76.0454545454545) {
                                    if (input[2] <= 0.718656437125748) {
                                        if (input[0] <= 43.3466666666667) {
                                            if (input[1] <= 1507.89323002411) {
                                                if (input[1] <= 270.493144107809) {
                                                    if (input[0] <= 40.3416666666667) {
                                                        return 0;
                                                    }
```

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```
                                        else if (input[0] > 40.3416666666667)
{
                                            return 1;
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else if (input[1] > 270.493144107809) {
                                        if (input[1] <= 458.722324971557) {
                                            return 1;
                                        }
                                        else if (input[1] > 458.722324971557)
{
{
                                            if (input[1] <= 461.324253621464)
                                                return 0;
                                        }
                                        else if (input[1] >
461.324253621464) {
                                            if (input[3] <= 0.4446545) {
                                                if (input[1] <=
904.219119101801) {
                                                    return 1;
                                                }
                                                else if (input[1] >
904.219119101801) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else if (input[3] >
0.4446545) {
                                                if (input[3] <= 0.466867)
{
                                                    return 0;
                                                }
                                                else if (input[3] >
0.466867) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
```

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```
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                    }
                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                }
                else throw new ArgumentException("input",
"Unexpected value at position 1.");
            }
            else if (input[1] > 1507.89323002411) {
                if (input[1] <= 2215.93076848584) {
                    if (input[0] <= 43.0178571428571) {
                        if (input[0] <= 39.3416666666667)
{
                            return 0;
                        }
                        else if (input[0] >
39.3416666666667) {
                            return 1;
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                    }
                    else if (input[0] > 43.0178571428571)
{
                        if (input[3] <= 0.303599) {
                            if (input[3] <= 0.252257) {
                                if (input[1] <=
1982.14217609204) {
                                    return 1;
                                }
                                else if (input[1] >
1982.14217609204) {
                                    return 0;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                            }
                            else if (input[3] > 0.252257)
{
                                return 0;
                            }
                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                        }
```

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```
                                          else if (input[3] > 0.303599) {
                                              return 1;
                                          }
                                          else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                      }
                                      else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                  }
                                  else if (input[1] > 2215.93076848584) {
                                      return 1;
                                  }
                                  else throw new ArgumentException("input",
"Unexpected value at position 1.");
                              }
                              else throw new ArgumentException("input",
"Unexpected value at position 1.");
                          }
                          else if (input[0] > 43.3466666666667) {
                              if (input[3] <= 1.2838235) {
                                  if (input[1] <= 1324.11022644168) {
                                      if (input[1] <= 302.813162664454) {
                                          if (input[0] <= 54.0151515151515)
{
                                              if (input[0] <=
47.343137254902) {
                                                  return 1;
                                              }
                                              else if (input[0] >
47.343137254902) {
                                                  return 0;
                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                          }
                                          else if (input[0] >
54.0151515151515) {
                                              return 1;
                                          }
                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                      }
                                      else if (input[1] > 302.813162664454)
{
                                          if (input[0] <= 56.1770833333333)
{
```

```
                    if (input[0] <=
56.0181818181818) {
                        if (input[1] <=
1128.87721749845) {
                            return 1;
                        }
                        else if (input[1] >
1128.87721749845) {
                            return 1;
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                    }
                    else if (input[0] >
56.0181818181818) {
                        if (input[1] <=
793.547794136707) {
                            return 0;
                        }
                        else if (input[1] >
793.547794136707) {
                            return 1;
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                    }
                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                }
                else if (input[0] >
56.1770833333333) {
                    if (input[3] <= 0.79194) {
                        return 1;
                    }
                    else if (input[3] > 0.79194)
{
                        if (input[3] <=
0.7928255) {
                            return 0;
                        }
                        else if (input[3] >
0.7928255) {
                            return 1;
                        }
                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
```

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```
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[1] > 1324.11022644168) {
                                            if (input[1] <= 3108.45672878818) {
                                                if (input[3] <= 0.493066) {
                                                    if (input[1] <=
1325.06110001483) {
                                                        return 0;
                                                    }
                                                    else if (input[1] >
1325.06110001483) {
                                                        if (input[3] <=
0.4915325) {
                                                            return 1;
                                                        }
                                                        else if (input[3] >
0.4915325) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[3] > 0.493066) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[1] > 3108.45672878818)
{
                                                if (input[0] <= 64.0454545454545)
{
                                                    return 1;
                                                }
```

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```
                                                    else if (input[0] >
64.0454545454545) {

                                                        if (input[0] <=
66.5340909090909) {

                                                            return 0;
                                                        }
                                                        else if (input[0] >
66.5340909090909) {

                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else if (input[3] > 1.2838235) {
                                            if (input[3] <= 4.5984225) {
                                                if (input[3] <= 1.295058) {
                                                    return 0;
                                                }
                                                else if (input[3] > 1.295058) {
                                                    if (input[3] <= 4.5496675) {
                                                        if (input[0] <=
51.7888888888889) {

                                                            if (input[0] <=
51.52849002849) {

                                                                return 1;
                                                            }
                                                            else if (input[0] >
51.52849002849) {

                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[0] >
51.7888888888889) {

                                                            if (input[0] <=
55.9134615384615) {
```

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```
                                                return 1;
                                            }
                                            else if (input[0] >
55.9134615384615) {

                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else if (input[3] > 4.5496675) {
                                        return 0;
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                            }
                            else if (input[3] > 4.5984225) {
                                return 1;
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 3.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 3.");
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                }
                else if (input[2] > 0.718656437125748) {
                    if (input[2] <= 0.720294117647059) {
                        return 0;
                    }
                    else if (input[2] > 0.720294117647059) {
                        if (input[3] <= 0.827821) {
                            if (input[1] <= 690.932238323946) {
                                if (input[0] <= 41.0178571428571) {
                                    return 1;
                                }
                                else if (input[0] > 41.0178571428571)
{
```

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```
                                                    if (input[0] <= 61.0238095238095)
{
                                                        if (input[1] <=
250.53429697605) {
                                                            if (input[0] <=
50.003125) {
                                                                return 1;
                                                            }
                                                            else if (input[0] >
50.003125) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                        }
                                                        else if (input[1] >
250.53429697605) {
                                                            if (input[1] <=
623.919725460853) {
                                                                return 0;
                                                            }
                                                            else if (input[1] >
623.919725460853) {
                                                                return 0;
                                                            }
                                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                    }
                                                    else if (input[0] >
61.0238095238095) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[1] > 690.932238323946) {
                                                if (input[1] <= 5140.8060042148) {
                                                    if (input[0] <= 62.0288461538462)
{
                                                        return 1;
```

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```
                                                     }
                                                     else if (input[0] >
62.0288461538462) {

                                                         if (input[3] <= 0.414257) {
                                                             return 0;
                                                         }
                                                         else if (input[3] > 0.414257)
{
                                                             return 1;
                                                         }
                                                         else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                     }
                                                     else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                 }
                                                 else if (input[1] > 5140.8060042148)
{
                                                     return 0;
                                                 }
                                                 else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                             }
                                             else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                         }
                                         else if (input[3] > 0.827821) {
                                             if (input[3] <= 17.8427695) {
                                                 if (input[0] <= 44.2647364513734) {
                                                     if (input[0] <= 41.2052631578947)
{
                                                         return 1;
                                                     }
                                                     else if (input[0] >
41.2052631578947) {
                                                         return 0;
                                                     }
                                                     else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                 }
                                                 else if (input[0] > 44.2647364513734)
{
                                                     if (input[1] <= 382.922342141233)
{
                                                         return 1;
                                                     }
```

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```
                                           else if (input[1] >
382.922342141233) {

                                               if (input[2] <=
0.985714285714286) {

                                                   return 1;
                                               }
                                               else if (input[2] >
0.985714285714286) {

                                                   return 0;
                                               }
                                               else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                           }
                                           else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                       }
                                       else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                   }
                                   else if (input[3] > 17.8427695) {
                                       return 0;
                                   }
                                   else throw new ArgumentException("input",
"Unexpected value at position 3.");
                               }
                               else throw new ArgumentException("input",
"Unexpected value at position 3.");
                           }
                           else throw new ArgumentException("input",
"Unexpected value at position 2.");
                       }
                       else throw new ArgumentException("input", "Unexpected
value at position 2.");
                   }
                   else if (input[0] > 76.0454545454545) {
                       if (input[2] <= 0.673139768728004) {
                           if (input[2] <= 0.672987059669303) {
                               if (input[0] <= 197.15) {
                                   if (input[3] <= 1.4643285) {
                                       if (input[1] <= 1841.85233443355) {
                                           if (input[3] <= 0.428485) {
                                               if (input[0] <=
77.8452380952381) {

                                                   if (input[1] <=
1396.8176870881) {

                                                       return 1;
```

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```
                                                               }
                                                               else if (input[1] >
1396.8176870881) {
                                                                   return 0;
                                                               }
                                                               else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                           }
                                                           else if (input[0] >
77.8452380952381) {
                                                               if (input[1] <=
1337.4600549507) {
                                                                   return 1;
                                                               }
                                                               else if (input[1] >
1337.4600549507) {
                                                                   return 1;
                                                               }
                                                               else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                           }
                                                           else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                   }
                                                   else if (input[3] > 0.428485) {
                                                       if (input[1] <=
827.631745301368) {
                                                           if (input[3] <=
0.6698975) {
                                                               return 1;
                                                           }
                                                           else if (input[3] >
0.6698975) {
                                                               return 1;
                                                           }
                                                           else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                       }
                                                       else if (input[1] >
827.631745301368) {
                                                           if (input[0] <=
153.041666666667) {
                                                               return 1;
                                                           }
                                                           else if (input[0] >
153.041666666667) {
```

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```
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                    }
                                    else if (input[1] > 1841.85233443355)
{
                                        if (input[0] <= 154.944444444444)
{
                                            if (input[1] <=
4121.40126214244) {
                                                if (input[3] <=
0.5238815) {
                                                    return 0;
                                                }
                                                else if (input[3] >
0.5238815) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[1] >
4121.40126214244) {
                                                if (input[3] <=
0.2373775) {
                                                    return 1;
                                                }
                                                else if (input[3] >
0.2373775) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[0] >
154.944444444444) {
```

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```
                                                    if (input[3] <= 0.7255125) {
                                                        if (input[3] <= 0.714015)

{
                                                            return 1;
                                                        }
                                                        else if (input[3] >
0.714015) {
                                                            return 0;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                    }
                                                    else if (input[3] >
0.7255125) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[3] > 1.4643285) {
                                            if (input[1] <= 871.594441387207) {
                                                if (input[3] <= 5.1609065) {
                                                    if (input[1] <=
352.176433830514) {
                                                        if (input[0] <=
78.9388888888889) {
                                                            return 0;
                                                        }
                                                        else if (input[0] >
78.9388888888889) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                    }
                                                    else if (input[1] >
352.176433830514) {
                                                        if (input[1] <=
359.615740754504) {
                                                            return 0;
```

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```
                                                      }
                                                      else if (input[1] >
359.615740754504) {
                                                          return 0;
                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                          }
                                          else if (input[3] > 5.1609065) {
                                              if (input[0] <=
130.061111111111) {
                                                  if (input[1] <=
299.953688149668) {
                                                      return 1;
                                                  }
                                                  else if (input[1] >
299.953688149668) {
                                                      return 1;
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                              }
                                              else if (input[0] >
130.061111111111) {
                                                  if (input[0] <=
188.348484848485) {
                                                      return 1;
                                                  }
                                                  else if (input[0] >
188.348484848485) {
                                                      return 0;
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                              }
                                              else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                          }
                                          else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                      }
                                      else if (input[1] > 871.594441387207)
{
```

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```
                                            if (input[3] <= 1.49807) {
                                                if (input[0] <=
99.7056277056277) {

                                                    return 1;
                                                }
                                                else if (input[0] >
99.7056277056277) {

                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[3] > 1.49807) {
                                                if (input[1] <=
1101.96954586145) {

                                                    if (input[0] <=
113.544117647059) {

                                                        return 0;
                                                    }
                                                    else if (input[0] >
113.544117647059) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 0.");

                                                }
                                                else if (input[1] >
1101.96954586145) {

                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 3.");
                                }
                                else if (input[0] > 197.15) {
                                    if (input[1] <= 6916.03513403583) {
                                        if (input[3] <= 0.7958975) {
```

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```
                                                  if (input[1] <= 5689.41339399816)
{

                                                      return 0;
                                                  }
                                                  else if (input[1] >
5689.41339399816) {

                                                      if (input[3] <= 0.5900995) {
                                                          return 0;
                                                      }
                                                      else if (input[3] >
0.5900995) {

                                                          return 1;
                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                              }
                                              else if (input[3] > 0.7958975) {
                                                  if (input[1] <= 2039.31246054032)
{

                                                      if (input[3] <= 11.616442) {
                                                          if (input[1] <=
470.820904476529) {

                                                              return 0;
                                                          }
                                                          else if (input[1] >
470.820904476529) {

                                                              return 0;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                      }
                                                      else if (input[3] >
11.616442) {

                                                          if (input[0] <=
300.690476190476) {

                                                              return 1;
                                                          }
                                                          else if (input[0] >
300.690476190476) {

                                                              return 0;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
```

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```
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                      }
                                                      else if (input[1] >
2039.31246054032) {
                                                          if (input[0] <=
661.163737900223) {
                                                              if (input[1] <=
2672.14872504169) {
                                                                  return 1;
                                                              }
                                                              else if (input[1] >
2672.14872504169) {
                                                                  return 1;
                                                              }
                                                              else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                          }
                                                          else if (input[0] >
661.163737900223) {
                                                              return 0;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                                      }
                                                      else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                  }
                                                  else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                              }
                                              else if (input[1] > 6916.03513403583) {
                                                  if (input[0] <= 741.458089668616) {
                                                      if (input[1] <= 7284.75736518729)
{
                                                          if (input[0] <=
321.236111111111) {
                                                              return 1;
                                                          }
                                                          else if (input[0] >
321.236111111111) {
                                                              return 0;
                                                          }
                                                          else throw new
ArgumentException("input", "Unexpected value at position 0.");
```

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```
                                                    }
                                                    else if (input[1] >
7284.75736518729) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[0] > 741.458089668616)
{

                                                    if (input[2] <=
0.668896545552175) {

                                                        return 0;
                                                    }
                                                    else if (input[2] >
0.668896545552175) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                    }
                                    else if (input[2] > 0.672987059669303) {
                                        return 0;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                }
                                else if (input[2] > 0.673139768728004) {
                                    if (input[0] <= 1069.13033391768) {
                                        if (input[0] <= 89.0263157894737) {
                                            if (input[2] <= 0.859340659340659) {
                                                if (input[2] <= 0.71468089310413) {
                                                    if (input[3] <= 0.958266) {
                                                        if (input[1] <=
1532.11792554759) {

                                                            return 0;
                                                        }
```

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```
                                                    else if (input[1] >
1532.11792554759) {
                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                                }
                                                else if (input[3] > 0.958266) {
                                                    return 1;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                            }
                                            else if (input[2] > 0.71468089310413)
{
                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                        }
                                        else if (input[2] > 0.859340659340659) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                    }
                                    else if (input[0] > 89.0263157894737) {
                                        if (input[0] <= 1040.1089703565) {
                                            if (input[1] <= 1397.73435757806) {
                                                if (input[1] <= 1367.3302938596)
{
                                                    if (input[0] <=
205.535885167464) {
                                                        if (input[2] <=
0.680136054421769) {
                                                            return 0;
                                                        }
                                                        else if (input[2] >
0.680136054421769) {
                                                            return 1;
                                                        }
                                                        else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                                    }
                                                    else if (input[0] >
205.535885167464) {
```

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```
                                                    if (input[3] <=
3.8286305) {

                                                        return 0;
                                                    }
                                                    else if (input[3] >
3.8286305) {

                                                        return 1;
                                                    }
                                                    else throw new
ArgumentException("input", "Unexpected value at position 3.");
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[1] >
1367.3302938596) {

                                                return 0;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 1.");
                                        }
                                        else if (input[1] > 1397.73435757806)
{

                                            if (input[2] <=
0.677692728266812) {

                                                if (input[0] <=
831.460297927461) {

                                                    return 1;
                                                }
                                                else if (input[0] >
831.460297927461) {

                                                    return 0;
                                                }
                                                else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                            }
                                            else if (input[2] >
0.677692728266812) {

                                                if (input[0] <=
286.958333333333) {

                                                    return 1;
                                                }
                                                else if (input[0] >
286.958333333333) {

                                                    if (input[0] <=
287.674242424242) {
```

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```
                                                return 0;
                                            }
                                            else if (input[0] >
287.674242424242) {

                                                return 1;
                                            }
                                            else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                        }
                                        else throw new
ArgumentException("input", "Unexpected value at position 0.");
                                    }
                                    else throw new
ArgumentException("input", "Unexpected value at position 2.");
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                            }
                            else if (input[0] > 1040.1089703565) {
                                if (input[1] <= 120578.983945603) {
                                    return 1;
                                }
                                else if (input[1] > 120578.983945603)
{
                                    return 0;
                                }
                                else throw new
ArgumentException("input", "Unexpected value at position 1.");
                            }
                            else throw new ArgumentException("input",
"Unexpected value at position 0.");
                        }
                        else throw new ArgumentException("input",
"Unexpected value at position 0.");
                    }
                    else if (input[0] > 1069.13033391768) {
                        return 0;
                    }
                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                }
                else throw new ArgumentException("input", "Unexpected
value at position 2.");
            }
            else throw new ArgumentException("input", "Unexpected
value at position 0.");
```

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```
                            }
                            else throw new ArgumentException("input", "Unexpected value
at position 2.");
                        }
                        else throw new ArgumentException("input", "Unexpected value at
position 0.");
                    }
                    else if (input[3] > 29.1344495) {
                        if (input[1] <= 859.613303599043) {
                            if (input[2] <= 0.759907359752959) {
                                if (input[0] <= 104.773504273504) {
                                    if (input[0] <= 26.9959595959596) {
                                        return 0;
                                    }
                                    else if (input[0] > 26.9959595959596) {
                                        if (input[2] <= 0.733182503770739) {
                                            return 1;
                                        }
                                        else if (input[2] > 0.733182503770739) {
                                            return 0;
                                        }
                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                    }
                                    else throw new ArgumentException("input", "Unexpected
value at position 0.");
                                }
                                else if (input[0] > 104.773504273504) {
                                    if (input[2] <= 0.700515463917526) {
                                        if (input[1] <= 830.745170478617) {
                                            if (input[1] <= 294.456109828067) {
                                                if (input[1] <= 274.633503089024) {
                                                    return 0;
                                                }
                                                else if (input[1] > 274.633503089024) {
                                                    return 1;
                                                }
                                                else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                            }
                                            else if (input[1] > 294.456109828067) {
                                                return 0;
                                            }
                                            else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                        }
```

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```
                                    else if (input[1] > 830.745170478617) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 1.");
                                }
                                else if (input[2] > 0.700515463917526) {
                                    return 1;
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 2.");
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 0.");
                        }
                        else if (input[2] > 0.759907359752959) {
                            if (input[0] <= 49.7104166666667) {
                                return 0;
                            }
                            else if (input[0] > 49.7104166666667) {
                                return 1;
                            }
                            else throw new ArgumentException("input", "Unexpected
value at position 0.");
                        }
                        else throw new ArgumentException("input", "Unexpected value
at position 2.");
                    }
                    else if (input[1] > 859.613303599043) {
                        if (input[3] <= 42.4558045) {
                            if (input[2] <= 0.666854143232096) {
                                if (input[0] <= 655.844864659752) {
                                    if (input[0] <= 185.487142857143) {
                                        return 0;
                                    }
                                    else if (input[0] > 185.487142857143) {
                                        return 1;
                                    }
                                    else throw new ArgumentException("input",
"Unexpected value at position 0.");
                                }
                                else if (input[0] > 655.844864659752) {
                                    return 0;
                                }
                                else throw new ArgumentException("input", "Unexpected
value at position 0.");
```

```
                                                }
                                                else if (input[2] > 0.666854143232096) {
                                                    return 1;
                                                }
                                                else throw new ArgumentException("input", "Unexpected
value at position 2.");
                                            }
                                            else if (input[3] > 42.4558045) {
                                                if (input[2] <= 0.838416315610369) {
                                                    if (input[3] <= 50.415663) {
                                                        if (input[2] <= 0.663306155370826) {
                                                            return 0;
                                                        }
                                                        else if (input[2] > 0.663306155370826) {
                                                            return 1;
                                                        }
                                                        else throw new ArgumentException("input",
"Unexpected value at position 2.");
                                                    }
                                                    else if (input[3] > 50.415663) {
                                                        return 0;
                                                    }
                                                    else throw new ArgumentException("input", "Unexpected
value at position 3.");
                                                }
                                                else if (input[2] > 0.838416315610369) {
                                                    return 1;
                                                }
                                                else throw new ArgumentException("input", "Unexpected
value at position 2.");
                                            }
                                            else throw new ArgumentException("input", "Unexpected value
at position 3.");
                                        }
                                        else throw new ArgumentException("input", "Unexpected value at
position 1.");
                                    }
                                    else throw new ArgumentException("input", "Unexpected value at
position 3.");
                                }
                            else throw new ArgumentException("input", "Unexpected value at position
3.");
                        }
                    else throw new ArgumentException("input", "Unexpected value at position 2.");
                }
            else throw new ArgumentException("input", "Unexpected value at position 3.");
```

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```
        }
        else throw new ArgumentException("input", "Unexpected value at position 1.");
    }
}
}
```

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2.11.   InbuiltClassifiers.cs

```
using System;
using System.Collections.Generic;

namespace LibBtntDtct
{
    /// <summary>
    /// Class to store inbuilt classifiers in.
    /// </summary>
    public class InbuiltClassifiers
    {
        /// <summary>
        /// Represent the default (and only) classifier.
        /// </summary>
        public class Default : AbstractClassifier
        {
            /// <summary>
            /// Flow duration to use when it's uncknown.
            /// </summary>
            private static TimeSpan uncknownDuration = new TimeSpan(0, 0, 0, 0, 10);
            /// <summary>
            /// The botnet and normal flow classes.
            /// </summary>
            private static FlowClass[] flowClasses = FlowClass.Create("normal", "botnet");
            /// <summary>
            /// Returns the botnet and normal flow classes this classifier classifies flows into.
            /// </summary>
            public override IReadOnlyList<FlowClass> FlowClasses => flowClasses;

            /// <summary>
            /// Gets the flow's average payload length.
            /// </summary>
            public double GetFlowAPL(Flow f)
            {
                return (double)f.PayloadOctetsCount / f.PacketsCount;
            }

            /// <summary>
            /// Gets how many bytes per second are transmited in this flow.
            /// </summary>
            public double GetFlowBS(Flow f)
            {
                if (f.End == f.Start)
                    return f.OctetsCount / uncknownDuration.TotalSeconds;
                else
                    return f.OctetsCount / (f.End - f.Start).TotalSeconds;
```

```
        }

        /// <summary>
        /// Gets the flow's outgoing to total packets ratio.
        /// </summary>
        public double GetFlowIOPR(Flow f)
        {
            return (double)f.OutgoingPackets / f.PacketsCount;
        }


        /// <summary>
        /// Returns this flow's duration.
        /// </summary>
        public double GetFlowDuration(Flow f)
        {
            return (f.End == f.Start ? uncknownDuration : f.End - f.Start).TotalSeconds;
        }


        /// <summary>
        /// Classify the specified flow into either normal or botnet class.
        /// </summary>
        /// <returns>Flow class evaluated.</returns>
        public override FlowClass Classify(Flow f)
        {
            double[] arr = new double[4];
            int result;
            arr[0] = GetFlowAPL(f);
            arr[1] = GetFlowBS(f);
            arr[2] = GetFlowIOPR(f);
            arr[3] = GetFlowDuration(f);
            result = DefaultTree.Function(arr);
            if (result == 0 || result == 1)
                return FlowClasses[result];
            else
                return null;
        }

    }
  }
}
```

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3. BOTNETDETECTOR

3.1. Verbosity.cs

```
namespace BotnetDetector
{
    /// <summary>
    /// Program verbosity options.
    /// </summary>
    public enum Verbosity
    {
        Quiet,
        Normal,
        Verbose
    }

}
```

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3.2. StateAttribute.cs

```
using System;
namespace BotnetDetector
{
    /// <summary>
    /// Attribute of an option arg parser state function.
    /// </summary>
    [AttributeUsage(AttributeTargets.Method, AllowMultiple = true)]
    public class StateAttribute : Attribute
    {
        /// <summary>
        /// Option name the function is bound to.
        /// </summary>
        public string OptionName { get; set; }


        /// <summary>
        /// Indicates whether this function should be called withought incrementing the counter.
        /// </summary>
        public bool Fallthrough { get; set; }


        /// <summary>
        /// Indicates whether this parser state function does not invoke other parser states.
        /// </summary>
        public bool Single { get; set; } = true;


        /// <summary>
        /// Initializes a new instance of the <see cref="T:BotnetDetector.StateAttribute"/>
class.
        /// </summary>
        /// <param name="name">Option name.</param>
        public StateAttribute(string name)
        {
            Fallthrough = false;
            OptionName = name;
        }


        /// <summary>
        /// Initializes a new instance of the <see cref="T:BotnetDetector.StateAttribute"/>
class.
        /// </summary>
        /// <param name="name">Option name.</param>
        /// <param name="fallthrough">If set to <c>true</c>  sets Fallthrough propety
accordingly.</param>
        public StateAttribute(string name, bool fallthrough)
        {
            Fallthrough = fallthrough;
```

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```
            OptionName = name;
        }


        /// <summary>
        /// Initializes a new instance of the <see cref="T:BotnetDetector.StateAttribute"/>
class.
        /// </summary>
        /// <param name="name">Option name.</param>
        /// <param name="fallthrough">If set to <c>true</c> sets Fallthrough propety
accordingly.</param>
        /// <param name="single">If set to <c>true</c> sets Single property accordingly.</param>
        public StateAttribute(string name, bool fallthrough, bool single)
        {
            Fallthrough = fallthrough;
            OptionName = name;
            Single = single;
        }
    }
}
```

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3.3.   BinaryBotnetClassifier.cs

```
using System;
using System.Collections.Generic;
using LibBtntDtct;

namespace BotnetDetector
{
    /// <summary>
    /// Used to perform binary (normal/botnet) classification ontop of a (non)-binary classifier.
    /// </summary>
    public class BinaryBotnetClassifier : AbstractClassifier
    {
        /// <summary>
        /// The classifier result of which are converted to either normal or botnet classes.
        /// </summary>
        AbstractClassifier inner;

        protected int normalClassId;
        protected bool hasNormalClass;

        /// <summary>
        /// Returns the lis of inner classifier's classes.
        /// </summary>
        protected IReadOnlyList<FlowClass> InnerClasses => inner.FlowClasses;

        /// <summary>
        /// Gets the normal class identifier of the inner classifier.
        /// </summary>
        public int NormalClassID { get; }

        /// <summary>
        /// Returns the list of this classifier classes: normal and botnet class.
        /// </summary>
        public override IReadOnlyList<FlowClass> FlowClasses { get; }

        /// <summary>
        /// Initializes a new instance of the <see
cref="T:BotnetDetector.BinaryBotnetClassifier"/> class.
        /// </summary>
        /// <param name="inner">Inner classifier to create this ontop of.</param>
        public BinaryBotnetClassifier(AbstractClassifier inner)
        {
            if (inner == null)
                throw new ArgumentNullException(nameof(inner));
            this.inner = inner;
            for(int i = 0; i < InnerClasses.Count; i++)
```

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```
        {
            if (InnerClasses[i].Name == "normal")
            {
                normalClassId = i;
                hasNormalClass = true;
            }
        }
        FlowClasses = FlowClass.Create("normal", "botnet");
    }


    /// <summary>
    /// Classify the specified flow into either normal or botnet class.
    /// Class is considered to be botnet,
    /// If the inner classifier returns class with id unequal to that of the normal class.
    /// </summary>
    /// <returns>Flow class evaluated.</returns>
    public override FlowClass Classify(Flow f)
    {
        if (hasNormalClass)
            return FlowClasses[inner.Classify(f).Id == normalClassId ? 0 : 1];
        else
            return FlowClasses[1];
    }
  }
}
```

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3.4.   PerformanceEvaluator.cs

```csharp
using System;
using System.Timers;
using System.IO;
using System.Linq;
using System.Collections.Generic;
using LibBtntDtct;

namespace BotnetDetector
{
    public class PerfomanceEvaluator
    {
        /// <summary>
        /// Represents a labeled flow.
        /// </summary>
        class LabeledFlow : Flow
        {
            /// <summary>
            /// Flow label reprsenting its class name
            /// </summary>
            public string Label { get; set; } = "unknown";

            /// <summary>
            /// Parses a labeled flow from the string given.
            /// </summary>
            public static new LabeledFlow Parse(string s)
            {
                LabeledFlow flow = new LabeledFlow();
                string[] arr = s.Split(',');
                int labelId = Flow.Parse(arr, 0, flow);
                flow.Label = arr[labelId].Trim();
                return flow;
            }
        }

        private StreamReader reader;

        /// <summary>
        /// Classifier to evaluate accuracy for.
        /// </summary>
        /// <value>The classifier.</value>
        private AbstractClassifier Classifier { get; }

        /// <summary>
        /// Indicates whether a class name of the evaluated classifier exists in the file as
        well.
```

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```
/// </summary>
private Dictionary<string, bool> foundClassNames;

/// <summary>
/// Represents the number of abnormal flows from the file by class,
/// incorrectly classified as abnormal by the evaluated classifier.
/// </summary>
private Dictionary<string, long> falseNegativeBotnetCounter;

/// <summary>
/// Represents the number of flows for each class from the file.
/// </summary>
private Dictionary<string, long> realClassifiedCounter;

/// <summary>
/// Represents the number of flows in each computed class by class ID.
/// </summary>
private long[] computedClassifiedCounter;

/// <summary>
/// Number of flows classified as abnormal in the file.
/// All abnormal flows are considered to be botnet.
/// </summary>
private long realBotnetCount;

/// <summary>
/// Number of flows classified as normal in the file.
/// </summary>
private long realNormalCount;

/// <summary>
/// Number of flow computed as botnet.
/// </summary>
private long computedBotnetCount;

/// <summary>
/// Number of flows computed as normal.
/// </summary>
private long computedNormalCount;


private long FP, FN, TP, TN, total;

/// <summary>
/// Normal class id in the classifier given.
/// </summary>
```

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```csharp
    private int normalClassId = -1;

    /// <summary>
    /// Indicates whether sets of classes in the file and the evaluated classifier are equal.
    /// </summary>
    private bool equalClasses = true;

    private Timer timer;

    /// <summary>
    /// Prints current status: how many flows have been processed.
    /// </summary>
    private void PrintStatus(object sender, ElapsedEventArgs e)
    {
        Console.Clear();
        Console.Write($"{total} flows have been processed.");
    }

    /// <summary>
    /// Prints the stats.
    /// </summary>
    public void PrintStats()
    {
        string P(long val)
        {
            return $"{val} ({(double)val / total * 100:F3}%)";
        }

        string PFN(long val)
        {
            return $"{val} ({(double)val / FN * 100:F3}%)";
        }

        Console.WriteLine($"Processed {total} flows.");
        Console.WriteLine($"Computed: {P(computedNormalCount)} as normal,\
t{P(computedBotnetCount)} as botnet.");
        Console.WriteLine($"Real: {P(realNormalCount)} as normal,\t{P(realBotnetCount)} as
botnet.");
        Console.WriteLine();
        Console.WriteLine($"Botnet/normal classes validation results: ");
        Console.WriteLine($"{P(TP)} TP,\t{P(TN)} TN,\t{P(TP + TN)} True");
        Console.WriteLine($"{P(FP)} FP,\t{P(FN)} FN,\t{P(FP + FN)} False");
        Console.WriteLine();
        Console.WriteLine($"Flows contributed to FN were follows:");
        foreach (var fcp in falseNegativeBotnetCounter)
            Console.WriteLine($"{fcp.Key}: {PFN(fcp.Value)}");
```

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```csharp
        Console.WriteLine();
        if (equalClasses)
        {
            Console.WriteLine($"By class comparision:");
            for (int i = 0; i < computedClassifiedCounter.Length; i++)
            {
                FlowClass current = Classifier.FlowClasses[i];
                long computed = computedClassifiedCounter[i];
                long real = realClassifiedCounter[current.Name];
                Console.WriteLine($"{current.Name}: {P(computed)} computed,\t{P(real)}
real");
            }
        }
        else
        {
            Console.WriteLine($"Computed classes statistics:");
            for (int i = 0; i < computedClassifiedCounter.Length; i++)
                Console.WriteLine($"{Classifier.FlowClasses[i].Name}:
{P(computedClassifiedCounter[i])}");
            Console.WriteLine();
            Console.WriteLine($"Read classes statistics:");
            foreach (var fcp in realClassifiedCounter)
                Console.WriteLine($"{fcp.Key}: {P(fcp.Value)}");
        }
    }

    /// <summary>
    /// Reads and processes the next labeled flow from the file.
    /// </summary>
    private void ReadNextPair()
    {
        LabeledFlow f;
        FlowClass cl;
        bool computedBotnet = false, realBotnet = false;
        try
        {
            f = LabeledFlow.Parse(reader.ReadLine());
        }
        catch (Exception ex)
        {
            throw new Exception($"Error reading flow #{total} from the file.", ex);
        }
        cl = Classifier.ValidateClassify(f);
        if (equalClasses && foundClassNames.ContainsKey(f.Label))
        {
            foundClassNames[f.Label] = true;
```

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```
        }
        else
            equalClasses = false;
        if (!realClassifiedCounter.ContainsKey(f.Label))
            realClassifiedCounter.Add(f.Label, 1);
        else
            realClassifiedCounter[f.Label]++;
        computedBotnet = cl.Id != normalClassId;
        realBotnet = f.Label != "normal";
        if (computedBotnet)
        {
            computedBotnetCount++;
            if (realBotnet)
            {
                realBotnetCount++;
                TP++;
            }
            else
            {
                realNormalCount++;
                FP++;
            }
        }
        else
        {
            computedNormalCount++;
            if (realBotnet)
            {
                realBotnetCount++;
                FN++;
                if (falseNegativeBotnetCounter.ContainsKey(f.Label))
                    falseNegativeBotnetCounter[f.Label]++;
                else
                    falseNegativeBotnetCounter.Add(f.Label, 1);
            }
            else
            {
                TN++;
                realNormalCount++;
            }
        }
        total++;
        computedClassifiedCounter[cl.Id]++;
    }


    /// <summary>
```

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```csharp
        /// Read and process all frows from the file given, and print results.
        /// </summary>
        public void ReadAll()
        {
            if (Program.Verbosity != Verbosity.Quiet)
            {
                timer = new Timer(1000);
                timer.Elapsed += PrintStatus;
                timer.Start();
            }
            while (!reader.EndOfStream)
                ReadNextPair();
            timer?.Stop();
            timer = null;
            if (Program.Verbosity != Verbosity.Quiet)
                Console.WriteLine();
            equalClasses = equalClasses && foundClassNames.Values.All(v => v);
            PrintStats();
        }


        /// <summary>
        /// Initializes a new instance of the <see cref="T:BotnetDetector.PerfomanceEvaluator"/>
class.
        /// </summary>
        /// <param name="cf">Classifier to use.</param>
        /// <param name="labeldFlowsPath">Path to the labeled flows table file.</param>
        /// <param name="skipFirstRow">If set to <c>true</c> skips the first row.</param>
        public PerfomanceEvaluator(AbstractClassifier cf, string labeldFlowsPath, bool
skipFirstRow)
        {
            if (cf == null)
                throw new ArgumentNullException(nameof(cf));
            Classifier = cf;
            try
            {
                reader = new StreamReader(File.OpenRead(labeldFlowsPath));
                if (skipFirstRow)
                    reader.ReadLine();
            }
            catch (Exception ex)
            {
                throw new Exception($"Error initialising flows reader stream at path:
{labeldFlowsPath}", ex);
            }
            foundClassNames = new Dictionary<string, bool>();
```

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```
        for (int i = 0; i < Classifier.FlowClasses.Count; i++)
        {
            foundClassNames.Add(Classifier.FlowClasses[i].Name, false);
            if (Classifier.FlowClasses[i].Name == "normal")
                normalClassId = i;
        }
        computedClassifiedCounter = new long[foundClassNames.Count];
        falseNegativeBotnetCounter = new Dictionary<string, long>();
        realClassifiedCounter = new Dictionary<string, long>();


    }
  }
}
```

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3.5.　AbstractWorker.cs

```
using System;
using System.IO;
using LibBtntDtct;

namespace BotnetDetector
{
    /// <summary>
    /// Abstract worker used to process, classify, print flows and classes information and class
statistics.
    /// </summary>
    public abstract class AbstractWorker
    {
        /// <summary>
        /// Indicates whether processed flows should be classified.
        /// </summary>
        public virtual bool Classify { get; set; } = true;


        /// <summary>
        /// Indicates whether flows should be printed.
        /// </summary>
        public virtual bool PrintFlows { get; set; } = true;
        /// <summary>
        /// Indicates whether flow classes should be printed.
        /// If classification is not carried out, neither is printing.
        /// </summary>
        public virtual bool PrintClasses { get; set; } = true;
        /// <summary>
        /// Indicates whether printing should occure only for the classes, name of which is not
"normal".
        /// Has no effect if classification is not carried out.
        /// </summary>
        public virtual bool PrintAbnormalTraficOnly { get; set; } = true;
        /// <summary>
        /// Indicates whether all classes wih name not equal to "normal" should be named botnet.
        /// Has no effect if classification is not carried out.
        /// </summary>
        /// <remarks>
        /// If set to true, a binary (normal/botnet) classifier would be placed onto of the
given.
        /// </remarks>
        public virtual bool NameAbnormalTraficAsBotnet { get; } = false;


        /// <summary>
        /// Inidicates whether to display statistics.
        /// </summary>
```

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```
public abstract bool DisplayStatistics { get; }

/// <summary>
/// Represents the output to print flows and classes info to.
/// </summary>
public virtual TextWriter Output { get; set; } = Console.Out;
/// <summary>
/// Indicates whether the classifier used has a class with name "normal".
/// </summary>
public virtual bool HasNormalClass { get; }
/// <summary>
/// Returns the ID of the first class with name "normal" of the classifier used.
/// </summary>
public virtual int NormalClassID { get; }
/// <summary>
/// Represents the classifier used.
/// </summary>
public virtual AbstractClassifier Classifier { get; }

/// <summary>
/// Represents the number of flows in each class.
/// </summary>
protected long[] classCount;

/// <summary>
/// Occurs when flow is classified.
/// </summary>
public event Action<Flow, FlowClass> FlowClassified;

/// <summary>
/// Occurs when flow is classified as abnormal.
/// </summary>
public event Action<Flow, FlowClass> FlowClassifiedAsAbnormal;

/// <summary>
/// Prints class statistics to console output.
/// </summary>
protected void DisplayClassStatistics()
{
    Console.WriteLine("Flows statistics:");
    for (int i = 0; i < classCount.Length; i++)
        Console.WriteLine($"{classCount[i]}\t{Classifier.FlowClasses[i].Name}");
}

/// <summary>
/// Prints the string repressntation of a flow given.
```

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```
        /// </summary>
        protected void PrintFlowOnly(Flow f) => Output.WriteLine(f);


        /// <summary>
        /// Prints the name of a flow class given.
        /// </summary>
        protected void PrintClassOnly(FlowClass cl) => Output.WriteLine(cl.Name);


        /// <summary>
        /// Creates the new counters of flow numbers in each class.
        /// </summary>
        protected void CreateNewClassCounters() => classCount = new
long[Classifier.FlowClasses.Count];


        /// <summary>
        /// Prints the string representation of a flow, than ", ", and then class name.
        /// </summary>
        protected void PrintFlowAndClass(Flow f, FlowClass cl)
        {
            Output.Write(f);
            Output.Write(", ");
            Output.WriteLine(cl.Name);
        }


        /// <summary>
        /// Indicates whether a flow or it's flow class should be printed based on options.
        /// </summary>
        protected bool ShouldBePrinted(FlowClass cl) => !PrintAbnormalTraficOnly || cl.Id !=
NormalClassID;


        /// <summary>
        /// Used to process a flow if the classification is to be occured.
        /// </summary>
        protected void ProcessClassify(Flow f)
        {
            FlowClass cl = Classifier.ValidateClassify(f);
            classCount[cl.Id]++;
            FlowClassified?.Invoke(f, cl);
            if (cl.Id != NormalClassID)
                FlowClassifiedAsAbnormal?.Invoke(f, cl);
            if (ShouldBePrinted(cl))
            {
                if (PrintFlows)
                {
                    if (PrintClasses)
                        PrintFlowAndClass(f, cl);
```

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```
                else
                    PrintFlowOnly(f);
            }
            else if (PrintClasses)
                PrintClassOnly(cl);
        }
    }

    /// <summary>
    /// Process the specified flow.
    /// </summary>
    protected void Process(Flow f)
    {
        if (Classify)
            ProcessClassify(f);
        else if (PrintFlows)
            PrintFlowOnly(f);
    }

    /// <summary>
    /// Initializes a new instance of the <see cref="T:BotnetDetector.AbstractWorker"/>
class.
    /// </summary>
    /// <param name="cf">Classifier to use.</param>
    /// <param name="nameAbnormalTraficAsBotnet">If set to <c>true</c> names abnormal trafic
as botnet.</param>
    /// <remarks>To understand abnormal trafic naming process <see
cref="T:BotnetDetector.AbstractWorker.PrintAbnormalTraficOnly"/></remarks>
    protected AbstractWorker(AbstractClassifier cf, bool nameAbnormalTraficAsBotnet)
    {
        if (nameAbnormalTraficAsBotnet)
            Classifier = new BinaryBotnetClassifier(cf);
        else if (cf == null)
            throw new ArgumentNullException(nameof(cf));
        else
            Classifier = cf;
        NameAbnormalTraficAsBotnet = nameAbnormalTraficAsBotnet;
        CreateNewClassCounters();
        for(int i = 0; i < Classifier.FlowClasses.Count; i++)
        {
            if (Classifier.FlowClasses[i].Name == "normal")
            {
                HasNormalClass = true;
                NormalClassID = i;
                break;
            }
        }
```

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```
            else
                NormalClassID = -1;
        }
    }

        }
    }
```

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3.6. LiveWorker.cs

```csharp
using System;
using System.IO;
using System.Timers;
using LibBtntDtct;
namespace BotnetDetector
{
    /// <summary>
    /// Live worker used to process, classify, print flows and classes information and class
statistics from a live device.
    /// </summary>
    public class LiveWorker : AbstractWorker
    {
        /// <summary>
        /// Live trafic flow adapter.
        /// </summary>
        protected LiveCaptureFlowAdapter adapter;

        protected Timer timer;

        /// <summary>
        /// Returns the name of the device this worker was initialised appon.
        /// </summary>
        string DeviceName { get; }

        /// <summary>
        /// Represents the total number of packets read.
        /// </summary>
        public long Total => adapter.Total;

        /// <summary>
        /// Repressnts the number of packets the library encountered errors parsing.
        /// </summary>
        public long Errors => adapter.Errors;

        /// <summary>
        /// Represents the number of droped packets due to the queue overflow.
        /// </summary>
        public long Droped => adapter.Dropped;

        /// <summary>
        /// Represents the number of queued packets.
        /// </summary>
        public long Queued => adapter.QueudPackets;

        /// <summary>
```

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```
/// Represent the max packets queue size;
/// </summary>
public int MaxQueueSize { get => adapter.MaxQueueSize; set => adapter.MaxQueueSize =
value; }

/// <summary>
/// Indicates whether capture is running.
/// </summary>
public bool Running { get; private set; }

/// <summary>
/// Occurs when the capture stopped.
/// </summary>
public event Action Stopped;

/// <summary>
/// Indicates whether to display statistics.
/// </summary>
public override bool DisplayStatistics => !(Output == Console.Out || Program.Verbosity ==
Verbosity.Quiet);

/// <summary>
/// Displaies the status.
/// </summary>
public void DisplayStatus(object sender, ElapsedEventArgs e)
{
    Console.Clear();
    Console.WriteLine($"Packets statistics:");
    Console.WriteLine($"Total: {Total}");
    Console.WriteLine($"Queued: {Queued} / {MaxQueueSize} (max)");
    Console.WriteLine($"Errors: {Errors}");
    Console.WriteLine($"Droped: {Droped}");
    if (Classify)
        DisplayClassStatistics();
}

/// <summary>
/// Starts the capture.
/// </summary>
public void StartCapture()
{
    if (DisplayStatistics)
    {
        timer = new Timer(1000);
        timer.Elapsed += DisplayStatus;
        timer.Start();
```

```
        }
        try
        {
            adapter.StartCapture();
            Running = true;
        }
        catch (Exception ex)
        {
            throw new Exception("Unable to start cupture.", ex);
        }
    }

    /// <summary>
    /// Stops the capture.
    /// </summary>
    public void StopCapture()
    {
        try
        {
            adapter.StopCapture();
            Running = false;
        }
        catch (Exception ex)
        {
            throw new Exception("Unable to gracefully stop capture.", ex);
        }
        timer?.Stop();
        timer = null;
        Stopped?.Invoke();
    }

    /// <summary>
    /// Initializes a new instance of the <see cref="T:BotnetDetector.LiveWorker"/> class.
    /// </summary>
    /// <param name="deviceName">Device name to listen on.</param>
    /// <param name="cf">Classifier to use.</param>
    public LiveWorker(string deviceName, AbstractClassifier cf, bool
nameAbnormalTraficAsBotnet)
        : base(cf, nameAbnormalTraficAsBotnet)
    {
        DeviceName = deviceName;
        adapter = new LiveCaptureFlowAdapter(deviceName);
        adapter.FlowDead += Process;
    }
    }
}
```

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3.7. PCAPWorker.cs

```
using System;
using System.IO;
using System.Timers;
using LibBtntDtct;

namespace BotnetDetector
{
    /// <summary>
    /// Pcap worker used to process, classify, print flows and classes information and class
statistics from a pcap file.
    /// </summary>
    public class PcapWorker : AbstractWorker
    {
        protected PcapFlowAdapter adapter;

        protected Timer timer;

        /// <summary>
        /// Returns the path to a pcap file this class was initialised with.
        /// </summary>
        string PcapPath { get; }

        /// <summary>
        /// Represents the number of packets read from the file.
        /// </summary>
        public long PacketsRead { get; private set; }

        /// <summary>
        /// Indicates whether to display statistics.
        /// </summary>
        public override bool DisplayStatistics => !(Output == Console.Out || Program.Verbosity ==
Verbosity.Quiet);

        /// <summary>
        /// Displaies the status.
        /// </summary>
        public void DisplayStatus(object sender, ElapsedEventArgs e)
        {
            Console.Clear();
            Console.WriteLine($"{PacketsRead} packets have been read.");
            if (Classify)
                DisplayClassStatistics();
        }

        /// <summary>
```

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```
        /// Reads pcpap file to end, processing its flows by the way.
        /// </summary>
        public void ReadToEnd()
        {
            PacketsRead = 0;
            if (DisplayStatistics)
            {
                timer = new Timer(1000);
                timer.Elapsed += DisplayStatus;
                timer.Start();
            }
            try
            {
                while (adapter.ReadNextPcapPacket() == 1)
                    PacketsRead++;
                timer?.Stop();
                timer = null;
            }
            catch(Exception ex)
            {
                throw new Exception("Pcap reading error.", ex);
            }
        }


        /// <summary>
        /// Initializes a new instance of the <see cref="T:BotnetDetector.PcapWorker"/> class.
        /// </summary>
        /// <param name="pcapPath">Path of the pcap file to read from.</param>
        /// <param name="cf">Classifier to use.</param>
        public PcapWorker(string pcapPath, AbstractClassifier cf, bool
nameAbnormalTraficAsBotnet)
            : base(cf, nameAbnormalTraficAsBotnet)
        {
            PcapPath = pcapPath;
            adapter = new PcapFlowAdapter(pcapPath);
            adapter.FlowDead += Process;
        }

    }
}
```

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3.8.   TableWorker.cs

```
using System;
using System.IO;
using System.Timers;
using LibBtntDtct;


namespace BotnetDetector
{
    /// <summary>
    /// Table worker used to process, classify, print flows and classes information and class
statistics from a live device.
    /// </summary>
    public class TableWorker : AbstractWorker
    {
        protected FlowReader reader;

        protected Timer timer;

        /// <summary>
        /// Returns the path to a table file this class was initialised with.
        /// </summary>
        string TablePath { get; }


        /// <summary>
        /// Represents the number of flows read from the table.
        /// </summary>
        /// <value>The flows read.</value>
        public long FlowsRead { get; private set; }


        /// <summary>
        /// Indicates whether to display statistics.
        /// </summary>
        public override bool DisplayStatistics => !(Output == Console.Out || Program.Verbosity ==
Verbosity.Quiet);


        /// <summary>
        /// Displaies the status.
        /// </summary>
        public void DisplayStatus(object sender, ElapsedEventArgs e)
        {
            Console.Clear();
            Console.WriteLine($"{FlowsRead} flows have been read.");
            if (Classify)
                DisplayClassStatistics();
        }
```

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```csharp
        /// <summary>
        /// Reads the flows from the table to end, processing them by the way.
        /// </summary>
        public void ReadToEnd()
        {
            FlowsRead = 0;
            if (DisplayStatistics)
            {
                timer = new Timer(1000);
                timer.Elapsed += DisplayStatus;
                timer.Start();
            }
            try
            {
                while (!reader.EOF)
                {
                    Flow f = reader.ReadFlow();
                    Process(f);
                    FlowsRead++;
                }
            }
            catch (Exception ex)
            {
                throw new Exception($"Error processing flow {FlowsRead}.", ex);
            }
        }


        /// <summary>
        /// Initializes a new instance of the <see cref="T:BotnetDetector.TableWorker"/> class.
        /// </summary>
        /// <param name="tablePath">Path of the table file to read from.</param>
        /// <param name="skipFirstLine">If set to <c>true</c> skips first line from the
table.</param>
        /// <param name="cf">Classifier to use.</param>
        public TableWorker(string tablePath, bool skipFirstLine, AbstractClassifier cf, bool
nameAbnormalTraficAsBotnet)
            : base(cf, nameAbnormalTraficAsBotnet)
        {
            TablePath = tablePath;
            reader = new FlowReader(File.OpenRead(tablePath), skipFirstLine);
        }
    }
}
```

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3.9. ProgramArgsReader.cs

```csharp
using System;
using System.Reflection;
using System.Security;
using System.Linq;
using System.Collections.Generic;
using System.Threading;
using System.IO;
using LibBtntDtct;

namespace BotnetDetector
{
    public partial class Program
    {

        /// <summary>
        /// Represents arg parser state bound to an option name;
        /// </summary>
        class State : IComparable<State>
        {
            /// <summary>
            /// Option name this parsing state is bound to.
            /// </summary>
            public string option;
            /// <summary>
            /// Indicates whether this state should be called withought incrementing the counter.
            /// </summary>
            public bool fallthrough;
            /// <summary>
            /// Indicates whether this state does not invoke others.
            /// </summary>
            public bool single;
            /// <summary>
            /// Represent this state's action
            /// </summary>
            public Action action;

            public State() { }

            /// <summary>
            /// Initializes a new instance of the <see cref="T:BotnetDetector.Program.State"/>
class.
            /// </summary>
            /// <param name="action">Action.</param>
            /// <param name="attribute">State attribute.</param>
            public State(Action action, StateAttribute attribute)
```

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```
            {
                this.option = attribute.OptionName;
                this.fallthrough = attribute.Fallthrough;
                this.single = attribute.Single;
                this.action = action;
            }

            /// <summary>
            /// Compares to the other state, using option names.
            /// </summary>
            /// <returns>The to.</returns>
            /// <param name="other">Other.</param>
            public int CompareTo(State other) => string.Compare(this.option, other.option,
    StringComparison.Ordinal);
        }

        /// <summary>
        /// Array of states bound to an option.
        /// </summary>
        private static State[] states;

        /// <summary>
        /// Array of this program's args.
        /// </summary>
        private static string[] args;
        /// <summary>
        /// Current arg index.
        /// </summary>
        private static int i;
        /// <summary>
        /// Current arg.
        /// </summary>
        /// <value>The argument.</value>
        private static string Arg => args[i];

        /// <summary>
        /// The external classifier path.
        /// </summary>
        private static string externalClassifierPath = null;
        /// <summary>
        /// The name of the external classifier.
        /// </summary>
        private static string externalClassifierName = null;

        /// <summary>
        /// Worker behaviour switches.
```

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```
/// </summary>
private static bool classify = true, printFlows = true, printClasses = true,
                   printAbnormalTraficOnly = false, nameAbnormalTraficAsBotnet = false;

/// <summary>
/// Indicates whether first line should be skiped while reading a flow table file.
/// </summary>
private static bool skipFirstLine = false;

/// <summary>
/// Indicates whether classifier path provided should be treated as absoulte.
/// </summary>
private static bool useAbsoluteClassifierPath = false;

/// <summary>
/// Indicates whether current state does not invoke others.
/// </summary>
private static bool currentStateSingle = false;

/// <summary>
/// Dummy state to use for binary search.
/// </summary>
private static State dummy = new State();

/// <summary>
/// Current bool action to invoke when switch options are used.
/// </summary>
private static Action<bool> currentBoolAction = null;

/// <summary>
/// List of input args.
/// </summary>
public static List<string> Input { get; } = new List<string>();

/// <summary>
/// List of output args.
/// </summary>
public static List<string> Output { get; } = new List<string>();

/// <summary>
/// Represents the parser's state: an action to use to read the current arg.
/// </summary>
public static Action state = ReadOption;

/// <summary>
/// This program's main job to perform.
```

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```
        /// </summary>
        public static Action job = PrintHelp;


        /// <summary>
        /// Preprocesses the negateable argument.
        /// </summary>
        public static bool PreprocessNegateableArg(ref string s)
        {
            if (s.Length >= 2)
            {
                if (s[0] == '-')
                {
                    if (s[1] == '-')
                        s = s.Substring(1);
                    else
                        return s[1] == '0' && s.Length == 2;
                }
            }
            return false;
        }


        /// <summary>
        /// Reads the current arg as option and modifies or executes parser state related.
        /// </summary>
        public static void ReadOption()
        {
            dummy.option = Arg;
            int id = Array.BinarySearch(states, dummy);
            if(id < 0)
            {
                throw new Exception($"Unrecognised option {Arg}");
            }
            else
            {
                if (states[id].fallthrough)
                {
                    states[id].action();
                }
                else
                {
                    state = states[id].action;
                    currentStateSingle = states[id].single;
                }
            }
        }
```

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```csharp
[State("-h", true), State("--help", true)]
public static void SetPrintHelp() => job = PrintHelp;


[State("-i"), State("--input")]
public static void ReadInput() => Input.Add(Arg);


[State("-o"), State("--output")]
public static void ReadOutput() => Output.Add(Arg);


[State("--classifier", false, false)]
public static void ReadClassifier()
{
    string arg = Arg;
    if (PreprocessNegateableArg(ref arg)) {
        externalClassifierPath = null;
        externalClassifierName = null;
        state = ReadOption;
        return;
    }
    externalClassifierPath = arg;
    state = ReadExternalClassifierName;
}


public static void ReadExternalClassifierName()
{
    externalClassifierName = Arg;
    state = ReadOption;
    currentStateSingle = false;
}


[State("-l", true), State("--live", true)]
public static void SetLiveWorkerJob() => job = PrepareAndExecuteLiveWorker;


[State("-p", true), State("--pcap", true)]
public static void SetPcapWorkerJob() => job = PrepareAndExecutePcapWorker;


[State("-t", true), State("--table", true)]
public static void SetTableWorkerJob() => job = PrepareAndExecuteTableWorker;


[State("-pr", true), State("--performance", true)]
public static void SetEvaluatePerformanceJob() => job = EvaluatePerformance;


[State("-ls", true), State("--listDevicies", true)]
public static void SetListDeviciesJob() => job = ListDevicies;


[State("--classify", true)]
```

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```
public static void SetClassify()
{
    classify = true;
    currentBoolAction = (v) => classify = v;
}


[State("--printFlows", true)]
public static void SetPrintFlows()
{
    printFlows = true;
    currentBoolAction = (v) => printFlows = v;
}


[State("--printClasses", true)]
public static void SetPrintClasses()
{
    printClasses = true;
    currentBoolAction = (v) => printClasses = v;
}


[State("--printAbnormalOnly", true)]
public static void SetPrintAbnormalOnly()
{
    printAbnormalTraficOnly = true;
    currentBoolAction = (v) => printAbnormalTraficOnly = v;
}


[State("--nameAbnormalAsBotnet", true)]
public static void SetNameAbnormalAsBotnet()
{
    nameAbnormalTraficAsBotnet = true;
    currentBoolAction = (v) => nameAbnormalTraficAsBotnet = v;
}


[State("--absoluteClassifierPath", true)]
public static void SetUseAbsoluteClassifierPath()
{
    useAbsoluteClassifierPath = true;
    currentBoolAction = (v) => useAbsoluteClassifierPath = v;
}


[State("--skipFirstLine", true)]
public static void SetSkipFirstLine()
{
    skipFirstLine = true;
    currentBoolAction = (v) => skipFirstLine = v;
```

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```csharp
    }

    [State("-0", true), State("-1", true)]
    public static void SetBoolOption()
    {
        if(currentBoolAction != null)
        {
            currentBoolAction(Arg[1] == '1');
            currentBoolAction = null;
        }
    }


    [State("-v", true), State("--verbose", true)]
    public static void MakeVerbose() => Verbosity = Verbosity.Verbose;

    [State("-q", true), State("--quiet", true)]
    public static void MakeQuiet() => Verbosity = Verbosity.Quiet;

    /// <summary>
    /// Returns the last item in the list or null if none exeists.
    /// </summary>
    public static string LastIn(List<string> list)
    {
        if (list.Count == 0)
            return null;
        else
            return list[list.Count - 1];
    }

    /// <summary>
    /// Reads the arguments to end, executing the parser state for each arg.
    /// </summary>
    public static void ReadArgs()
    {
        for (; i < args.Length; i++)
        {
            if (currentStateSingle)
            {
                state();
                state = ReadOption;
                currentStateSingle = false;
            }
            else
                state();
        }
        if (state != ReadOption)
```

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```
                    throw new Exception("More arguments expected for the rightmost option.");
        }

        /// <summary>
        /// Initializes the <see cref="T:BotnetDetector.Program"/> class.
        /// Creates option states array using state attributes.
        /// </summary>
        static Program()
        {
            var mArr = typeof(Program)
                .GetMethods()
                .Where((arg) => Attribute.IsDefined(arg, typeof(StateAttribute)));
            SortedSet<State> states = new SortedSet<State>();
            foreach(var mi in mArr)
            {
                Action action = (Action)mi.CreateDelegate(typeof(Action));
                var attributes = mi.GetCustomAttributes<StateAttribute>();
                foreach(var attribute in attributes)
                {
                    states.Add(new State(action, attribute));
                }
            }
            Program.states = new State[states.Count];
            states.CopyTo(Program.states);
        }

    }
}
```

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3.10. Program.cs

```
using System;
using System.Reflection;
using System.Security;
using System.Threading;
using System.IO;
using LibBtntDtct;

namespace BotnetDetector
{
    partial class Program
    {

        /// <summary>
        /// Indicates how verbose the status output should be.
        /// </summary>
        public static Verbosity Verbosity { get; private set; } = Verbosity.Normal;

        /// <summary>
        /// Prints the help mesage.
        /// </summary>
        public static void PrintHelp()
        {
            Console.WriteLine("Use:");
            Console.WriteLine("-h, --help\t\t\t\tto print this message.");
            Console.WriteLine("-l, --live\t\t\t\tto process live device packets.");
            Console.WriteLine("-p, --pcap\t\t\t\tto process pcap file.");
            Console.WriteLine("-t, --table\t\t\t\tto process flows from a table given.");
            Console.WriteLine("-pr, --performance\t\t\tto evaluate performance on a labeled
flow table.");
            Console.WriteLine("-ls, --listDevicies\t\t\tto list devicies available for live
capture.");
            Console.WriteLine("-i, --input\t\t\t\tto specify input parameters like file or
device name.");
            Console.WriteLine("-o, --output\t\t\t\tto specify output parameters like file name.
If no file provided stdout is used.");
            Console.WriteLine("--classifier pathToAssembly fullTypeName\tto use a classifier in
the assembly.");
            Console.WriteLine("--absoluteClassifierPath\t\t\tto consider path to classifier
assembly to be absolute.");
            Console.WriteLine("--classify\t\t\t\tto specify that trafic should be clasified.
Enabled by default.");
            Console.WriteLine("--printFlows\t\t\t\tto specify that flows should be printed.
Enabled by default.");
            Console.WriteLine("--printClasses\t\t\t\tto specify that flows should be printed.
Enabled by default.");
```

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```
        Console.WriteLine("--printAbnormalOnly\t\t\t\tto specify that only abnormal trafic
should be printed.");
        Console.WriteLine("--nameAbnormalAsBotnet\t\t\t\tto name trafic classified as not
normal as botnet.");
        Console.WriteLine("--skipFirstLine\t\t\t\t\tto skip first line when reading a flow
table file.");
        Console.WriteLine("-0\t\t\t\t\t\tto disable a bool option or restore some to
default.");
        Console.WriteLine("-1\t\t\t\t\t\tto enable a bool option.");
        Console.WriteLine("-v, --verbose\t\t\t\t\tto be verbose. This includes showing full
error trace.");
        Console.WriteLine("-q, --quiet\t\t\t\t\tto supress all state noticies to stdout
except errors.");
    }


    /// <summary>
    /// Opens the write stream on a path given.
    /// </summary>
    public static FileStream OpenWriteStream(string on)
    {
        return new FileStream(on, FileMode.Create, FileAccess.Write, FileShare.Read);
    }


    /// <summary>
    /// Loads the classifier using either Default one or the one parsed from the args.
    /// </summary>
    public static AbstractClassifier LoadClassifier()
    {
        AbstractClassifier cf;
        if (externalClassifierPath == null)
            cf = new InbuiltClassifiers.Default();
        else
        {
            Assembly dll;
            try
            {
                if (useAbsoluteClassifierPath)
                    dll = Assembly.LoadFile(externalClassifierPath);
                else
                    dll = Assembly.LoadFile(Path.Combine(Environment.CurrentDirectory,
externalClassifierPath));
            }
            catch (Exception inner)
            {
                throw new Exception("Error loading assembly file.", inner);
            }
```

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```
        Type classifierType;
        try
        {
            classifierType = dll.GetType(externalClassifierName, true);
        }
        catch (Exception inner)
        {
            throw new Exception("Error extracting classifier type.", inner);
        }
        if (!AbstractClassifier.ValidnessOf(classifierType))
            throw new Exception("Error classifier class provided does not appear to be
valid.");

        try
        {
            cf = (AbstractClassifier)Activator.CreateInstance(classifierType);
        }
        catch (Exception inner)
        {
            throw new Exception("Error creating classifier instance.", inner);
        }
    }
    return cf;
}

/// <summary>
/// Initialises the worker.
/// </summary>
public static void InitialiseWorker(AbstractWorker w)
{
    w.Classify = classify;
    w.PrintFlows = printFlows;
    w.PrintClasses = printClasses;
    w.PrintAbnormalTraficOnly = printAbnormalTraficOnly;
    if (!(w.PrintFlows || w.PrintClasses))
        w.Output = null;
    string output = LastIn(Output);
    if (output != null)
    {
        try
        {
            w.Output = new StreamWriter(OpenWriteStream(output));
        }
        catch (IOException ex)
        {
            throw new Exception("IO error while trying to create output.", ex);
```

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```
        }
        catch (SecurityException ex)
        {
            throw new Exception("Security error while trying to create output.", ex);
        }
        catch (Exception ex)
        {
            throw new Exception($"Error creating output ({ex.Message})", ex);
        }
    }
}


/// <summary>
/// Finalises the worker.
/// </summary>
public static void FinaliseWorker(AbstractWorker w)
{
    if (w.Output != Console.Out && w.Output != null)
    {
        try
        {
            w.Output.Close();
        }
        catch (Exception ex)
        {
            throw new Exception($"Error closing output thread.", ex);
        }
    }
}


/// <summary>
/// Prepares and executes live worker using args parsed.
/// </summary>
public static void PrepareAndExecuteLiveWorker()
{
    int unfinalised = 1;
    string interfaceName = LastIn(Input);
    if (interfaceName == null)
        throw new Exception("Interface name is not provided in input.");
    AbstractClassifier cf = LoadClassifier();
    LiveWorker worker;
    try
    {
        worker = new LiveWorker(interfaceName, cf, nameAbnormalTraficAsBotnet);
        Console.CancelKeyPress += (sender, e) => {
            worker.StopCapture();
```

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```
                if (Interlocked.CompareExchange(ref unfinalised, 1, 0) == 1)
                    FinaliseWorker(worker);
            };
            InitialiseWorker(worker);
            worker.StartCapture();
        }
        catch (Exception ex)
        {
            throw new Exception($"Unable to initialise worker: {ex.Message}", ex);
        }
        while (worker.Running)
            Thread.Sleep(1000);
        if (Interlocked.CompareExchange(ref unfinalised, 1, 0) == 1)
            FinaliseWorker(worker);
    }


    /// <summary>
    /// Prepares and executes pcap worker using args parsed.
    /// </summary>
    public static void PrepareAndExecutePcapWorker()
    {
        string pcapName = LastIn(Input);
        if (pcapName == null)
            throw new Exception("No pcap file specified in input.");
        if (!File.Exists(pcapName))
            throw new Exception("Unable to access file path given.");
        AbstractClassifier cf = LoadClassifier();
        PcapWorker worker;
        try
        {
            worker = new PcapWorker(pcapName, cf, nameAbnormalTraficAsBotnet);
        }
        catch (Exception ex)
        {
            throw new Exception($"Unable to initialise worker: {ex.Message}", ex);
        }
        InitialiseWorker(worker);
        try
        {
            worker.ReadToEnd();
        }
        catch (Exception ex)
        {
            throw new Exception($"Error analysing pcap file: {ex.Message}", ex);
        }
        FinaliseWorker(worker);
```

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```
    }

    /// <summary>
    /// Prepares and executes table worker using args parsed.
    /// </summary>
    public static void PrepareAndExecuteTableWorker()
    {
        string tableName = LastIn(Input);
        if (tableName == null)
            throw new Exception("No table file specified in input.");
        if (!File.Exists(tableName))
            throw new Exception("Unable to access file path given.");
        AbstractClassifier cf = LoadClassifier();
        TableWorker worker;
        try
        {
            worker = new TableWorker(tableName, skipFirstLine, cf,
nameAbnormalTraficAsBotnet);
        }
        catch (Exception ex)
        {
            throw new Exception($"Unable to initialise worker: {ex.Message}", ex);
        }
        InitialiseWorker(worker);
        try
        {
            worker.ReadToEnd();
        }
        catch (Exception ex)
        {
            throw new Exception($"Error analysing table file: {ex.Message}", ex);
        }
        FinaliseWorker(worker);
    }

    /// <summary>
    /// Evaluates the performance using table file path from the args parsed.
    /// </summary>
    public static void EvaluatePerformance()
    {
        string tableName = LastIn(Input);
        if (tableName == null)
            throw new Exception("No table file specified in input.");
        if (!File.Exists(tableName))
            throw new Exception("Unable to access file path given.");
        AbstractClassifier cf = LoadClassifier();
```

```
        PerfomanceEvaluator pf;
        try
        {
            pf = new PerfomanceEvaluator(cf, tableName, skipFirstLine);
        }
        catch (Exception ex)
        {
            throw new Exception($"Unable to initialise performance evaluation: {ex.Message}",
ex);
        }
        pf.ReadAll();
    }

    /// <summary>
    /// Prints SharpPcap provided device list to console out.
    /// </summary>
    public static void ListDevicies()
    {
        try
        {
            var devicies = SharpPcap.CaptureDeviceList.Instance;
            foreach (var dev in devicies)
                Console.WriteLine($"{dev.Name} ---> {dev.Description}");
        }
        catch(Exception ex)
        {
            throw new Exception("Error reading device list", ex);
        }
    }

    public static int Main(string[] args)
    {
        Program.args = args;
        i = 0;
        try
        {
            ReadArgs();
            job();
        }
        catch(Exception ex)
        {
            Console.Error.WriteLine(ex.Message);
            if (Verbosity == Verbosity.Verbose)
            {
                Console.Error.WriteLine("Full stack trace:");
                Console.Error.WriteLine(ex);
```

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```
                }
                return -1;
            }
            return 0;
        }
    }
}
```

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